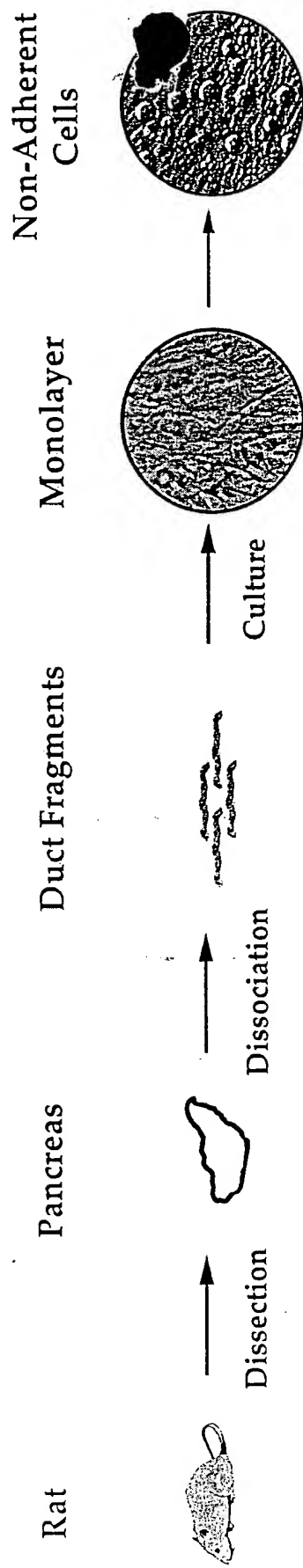


# Isolation of Pure Pancreatic Ducts for Culture



Primary Digest

First Pick

Second Pick

006080" 04E5E960

Figure 2

# Insulin-Positive Cells in Cultured Ducts over Time

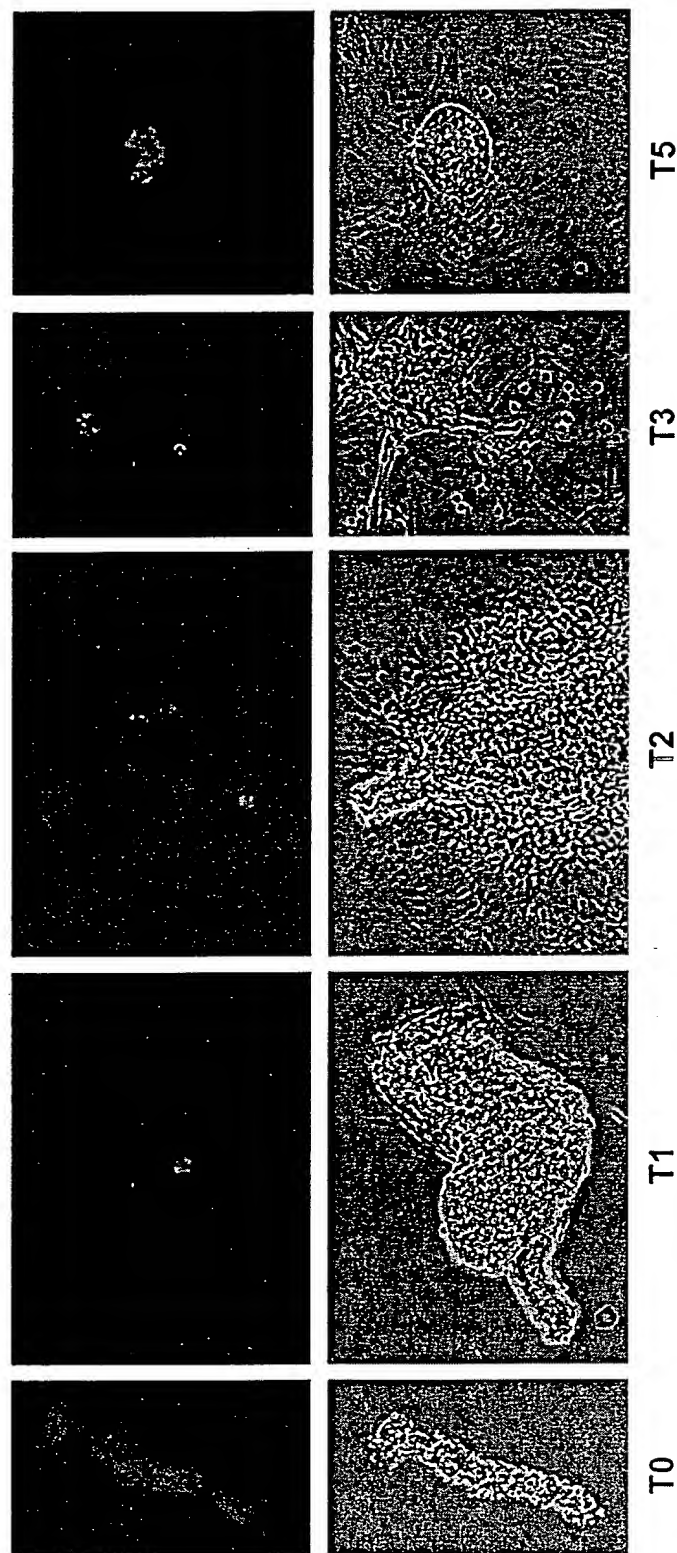


Figure 3

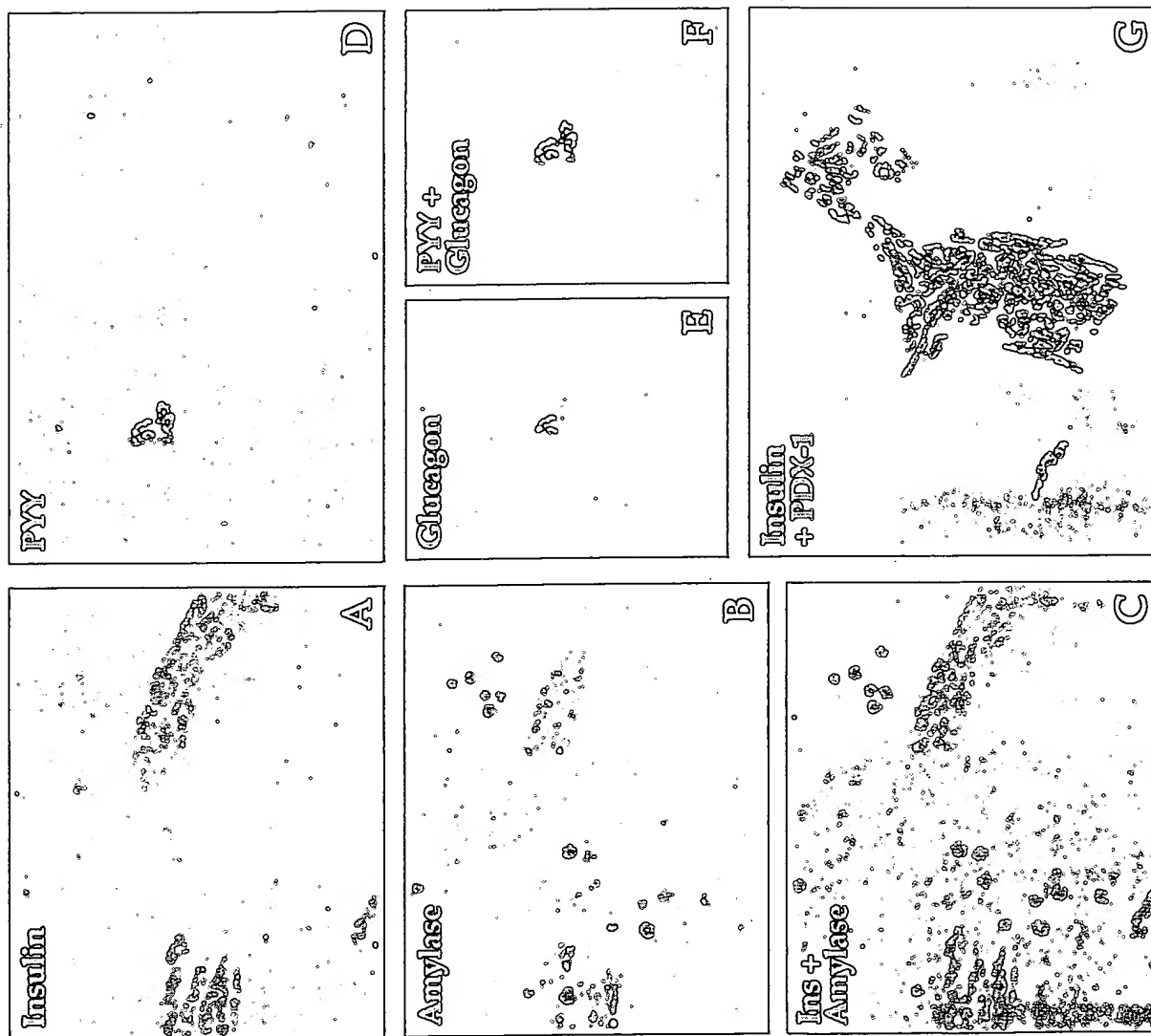
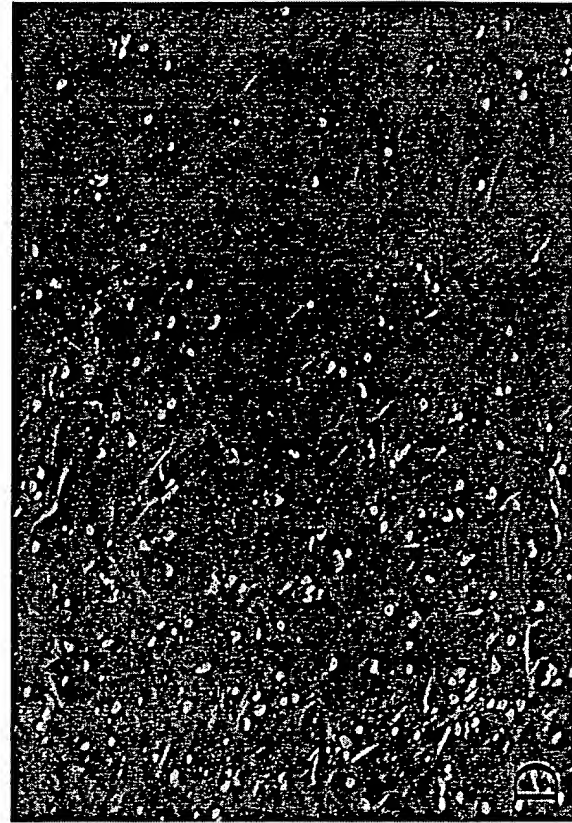
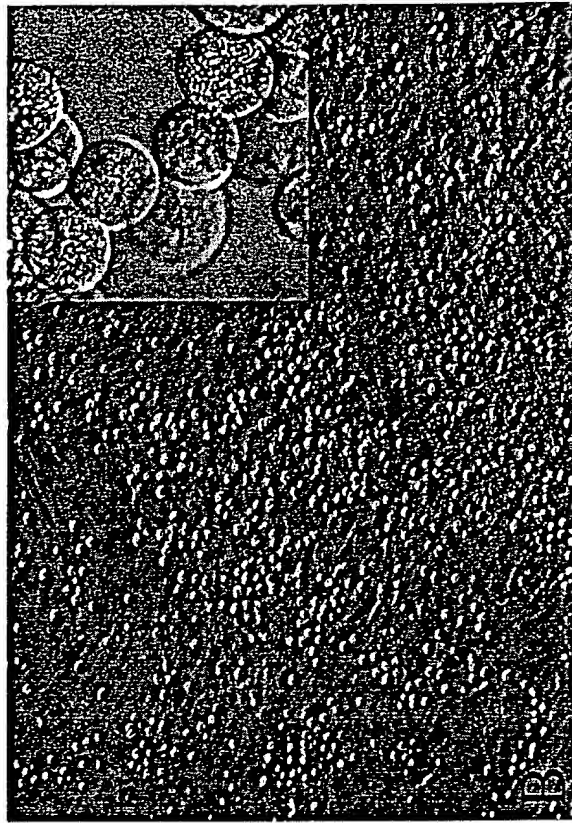


Figure 4



000000"04ESE960

Figure 5

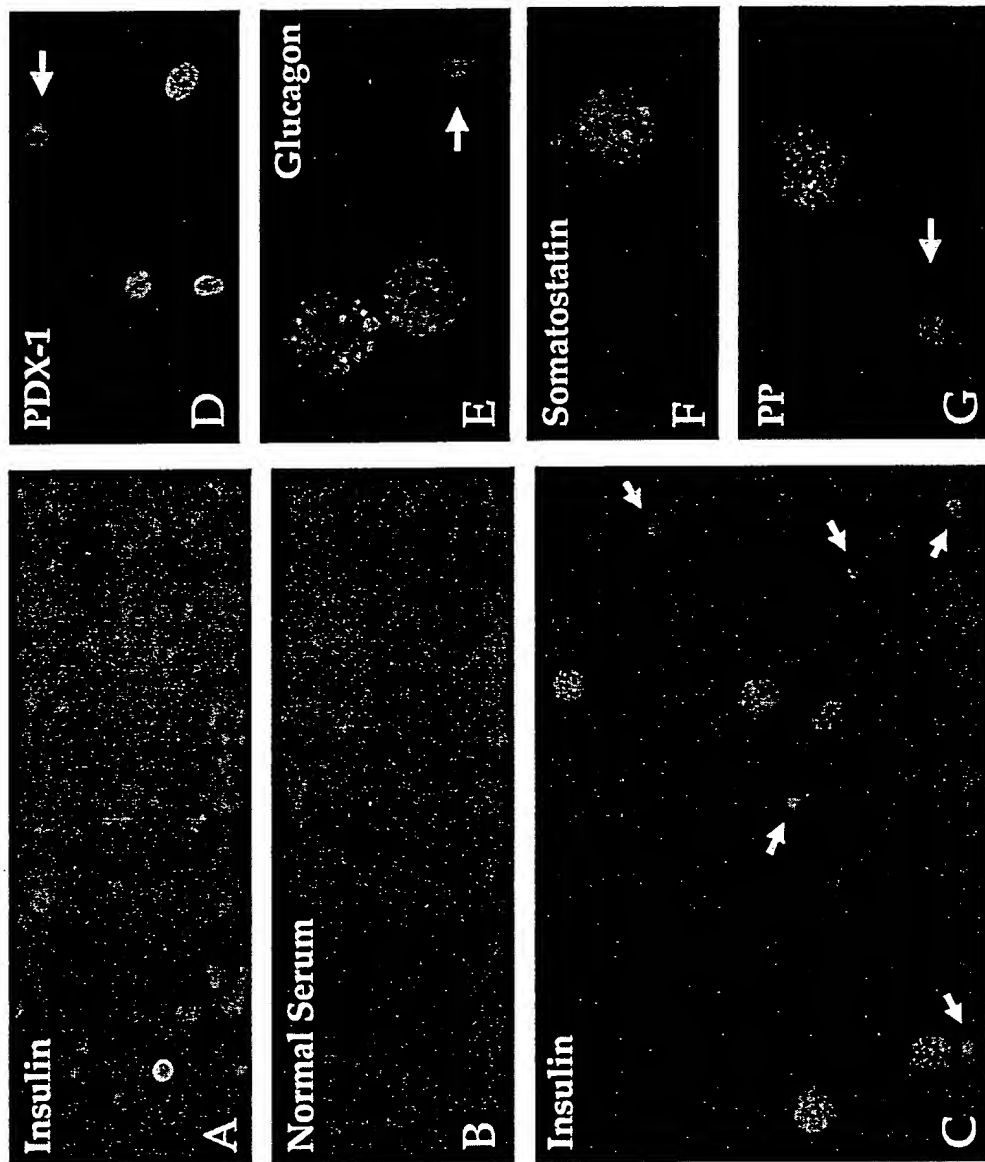


Figure 6

# Single cell transcript profiling

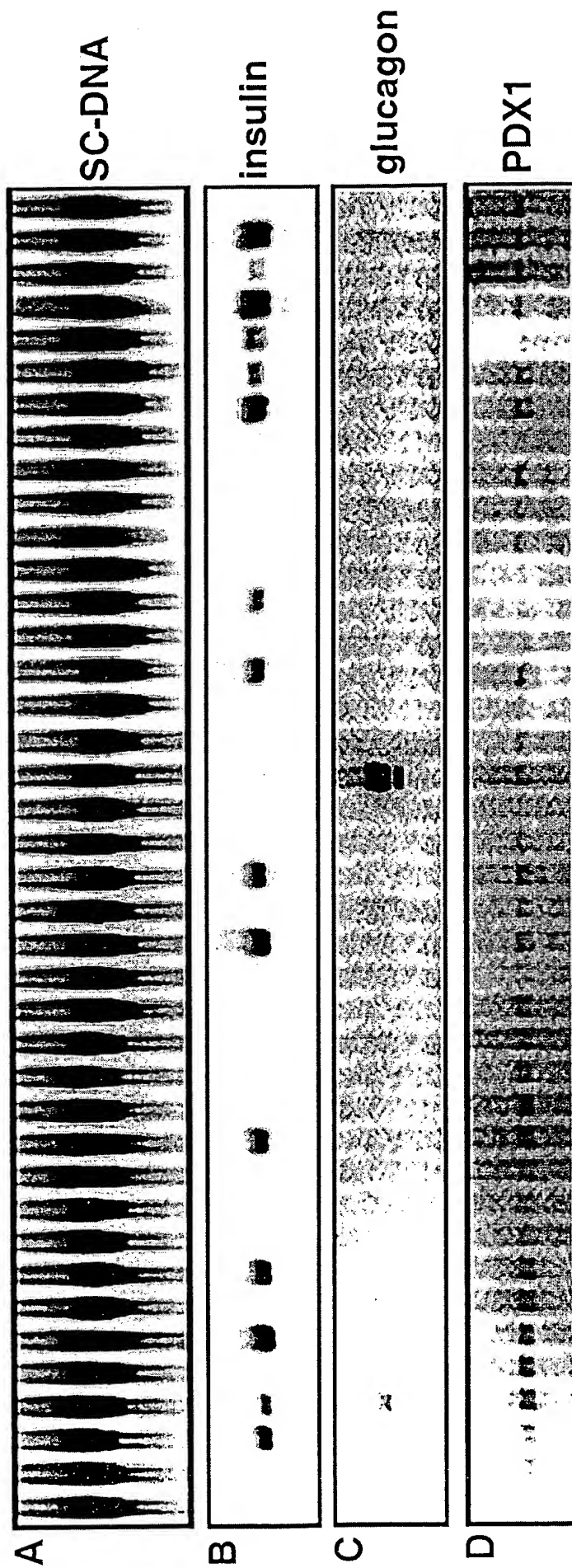
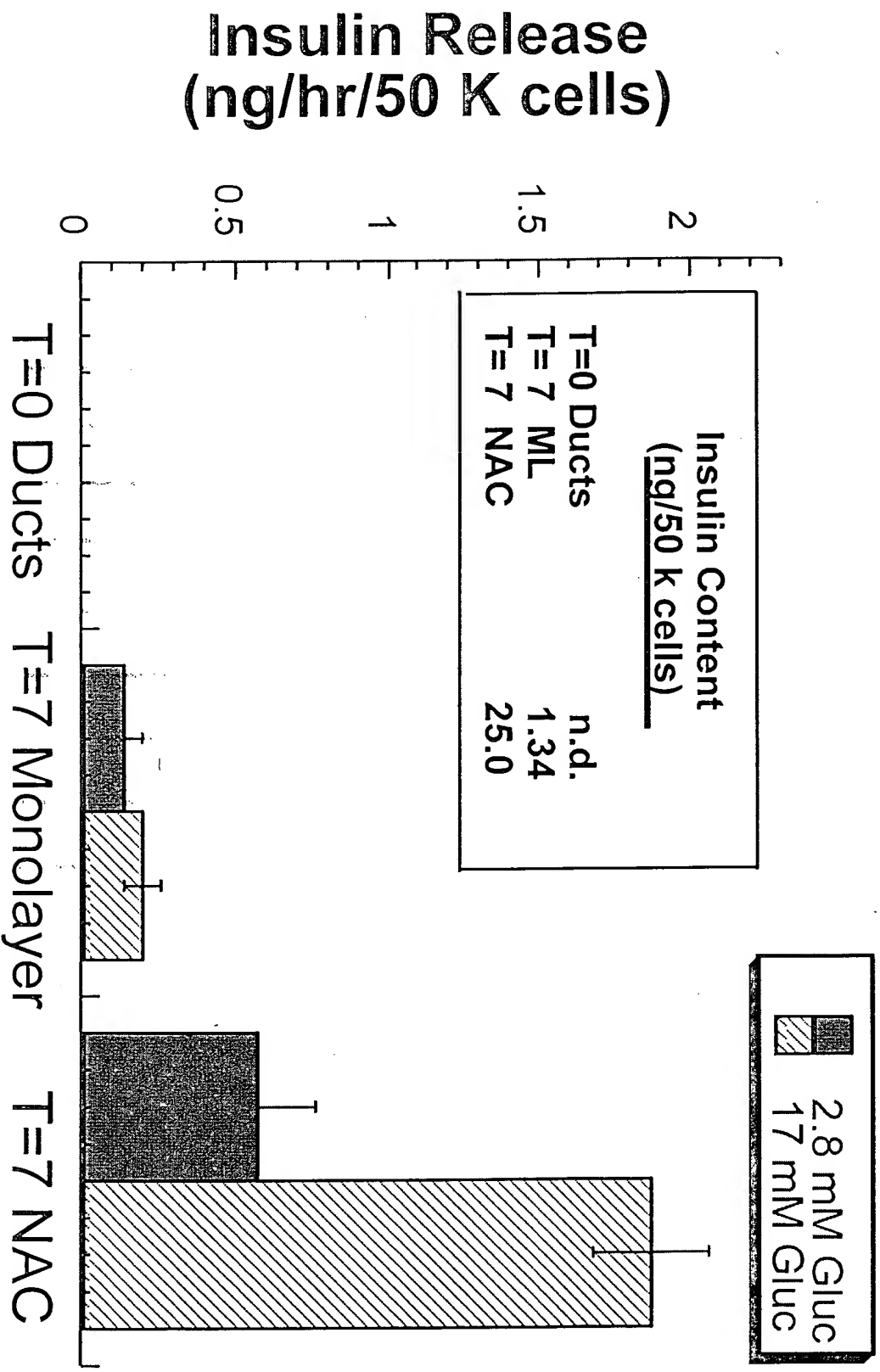


Figure 7

# Glucose Stimulated Insulin Secretion



09635370.080500

Figure 8

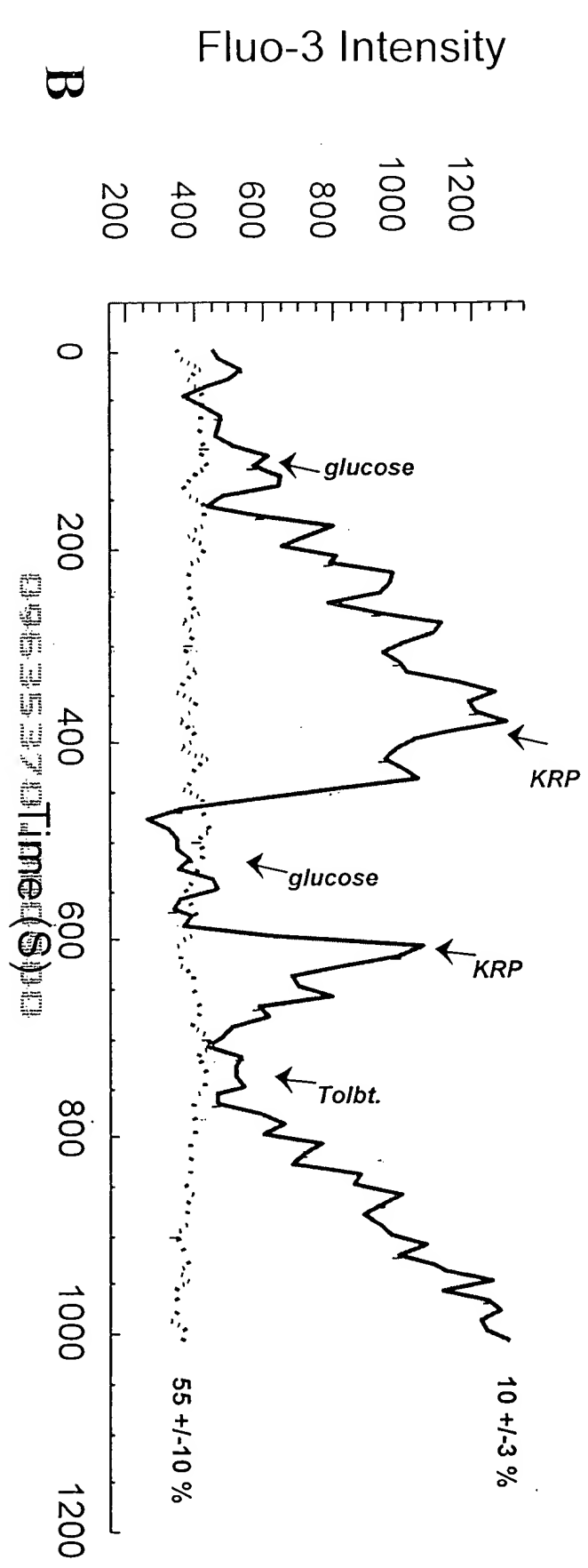
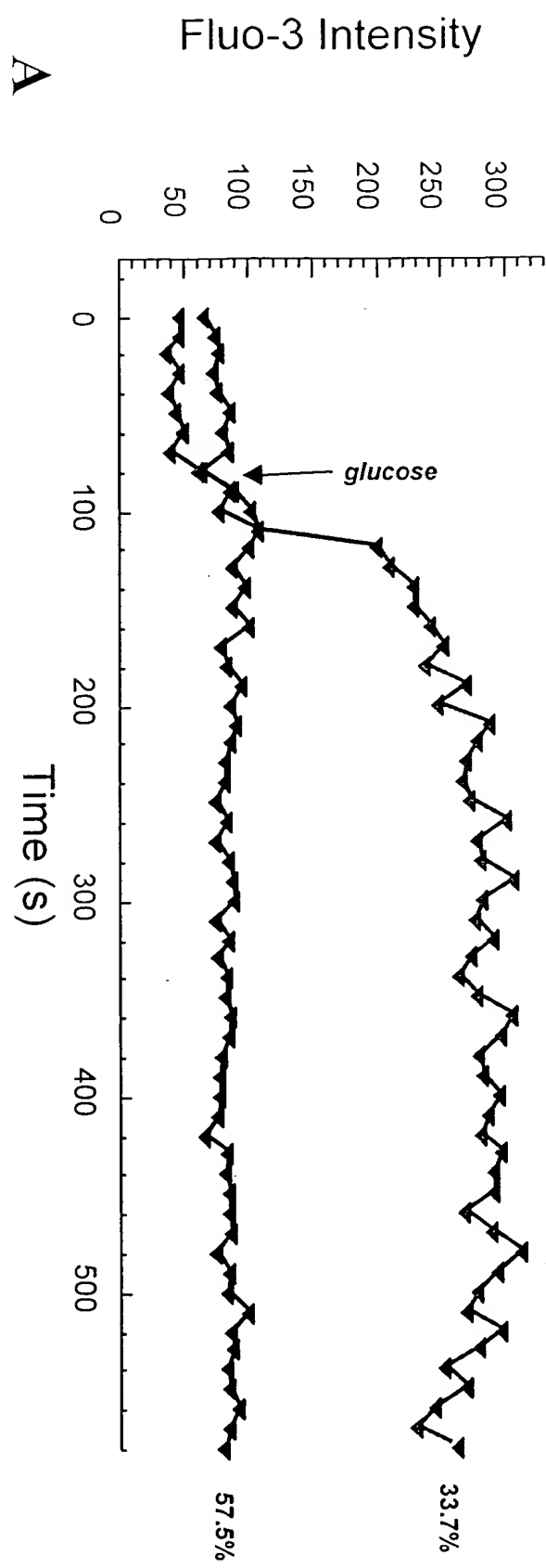




FIGURE 9

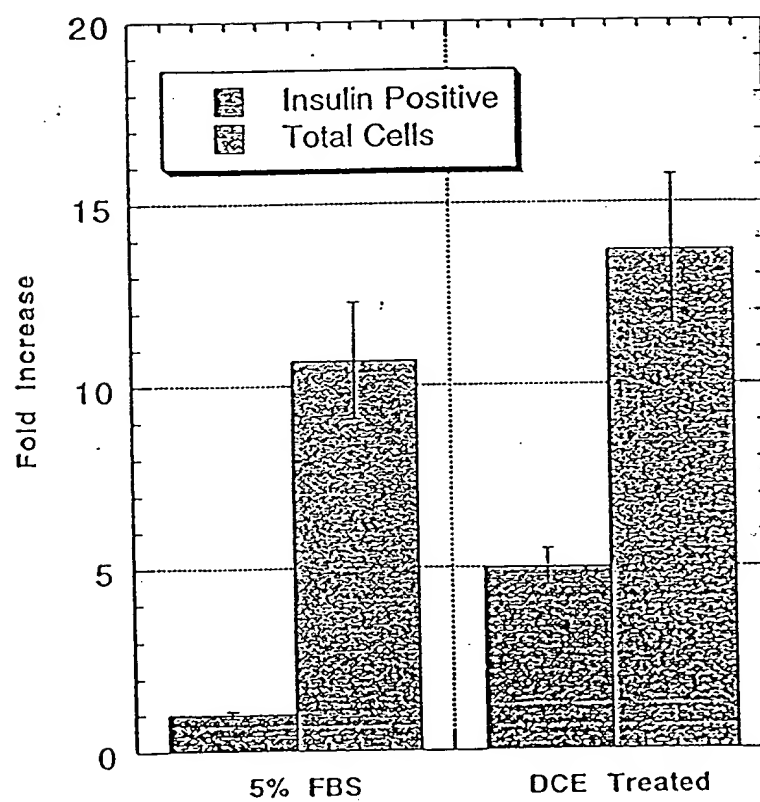


FIGURE 10

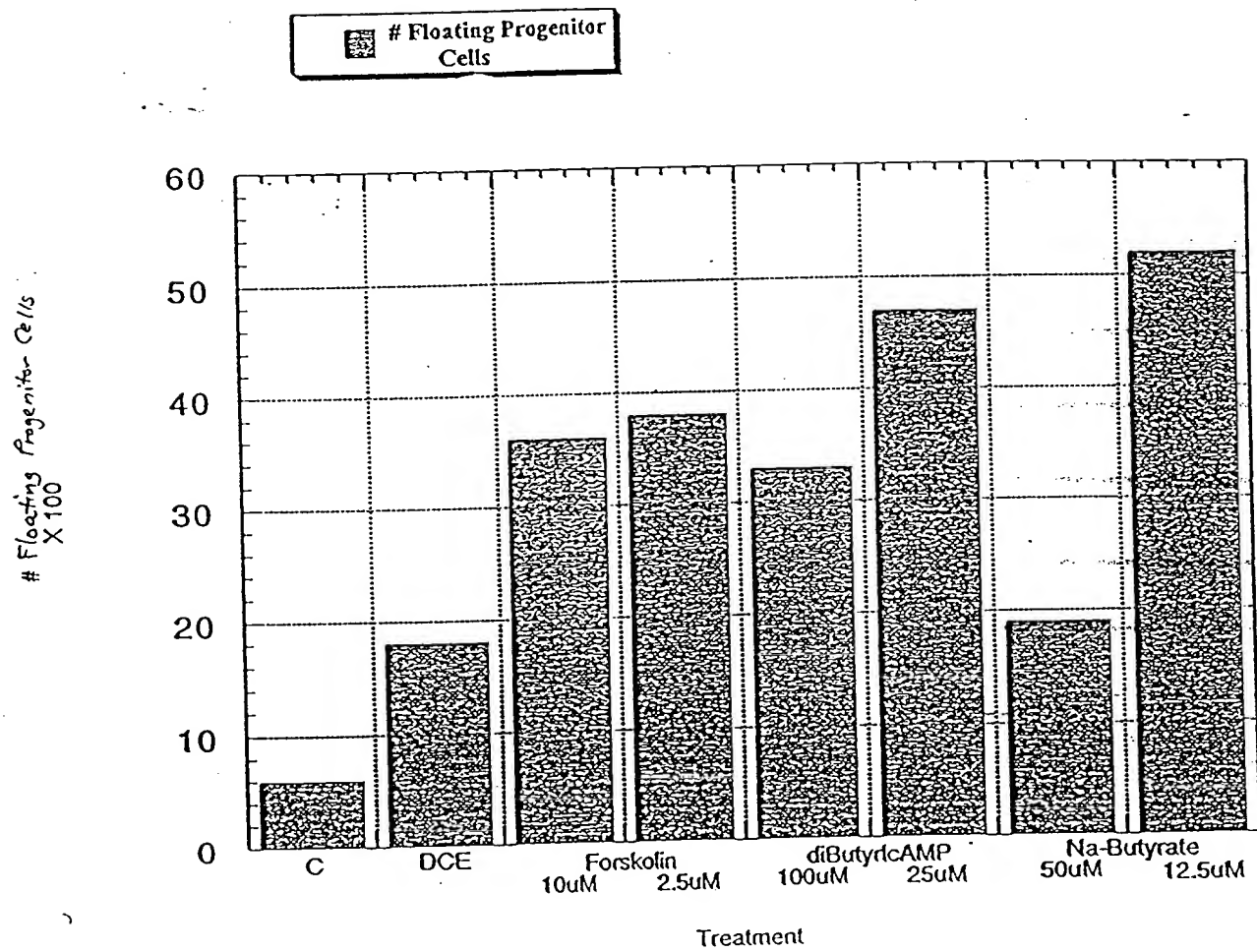
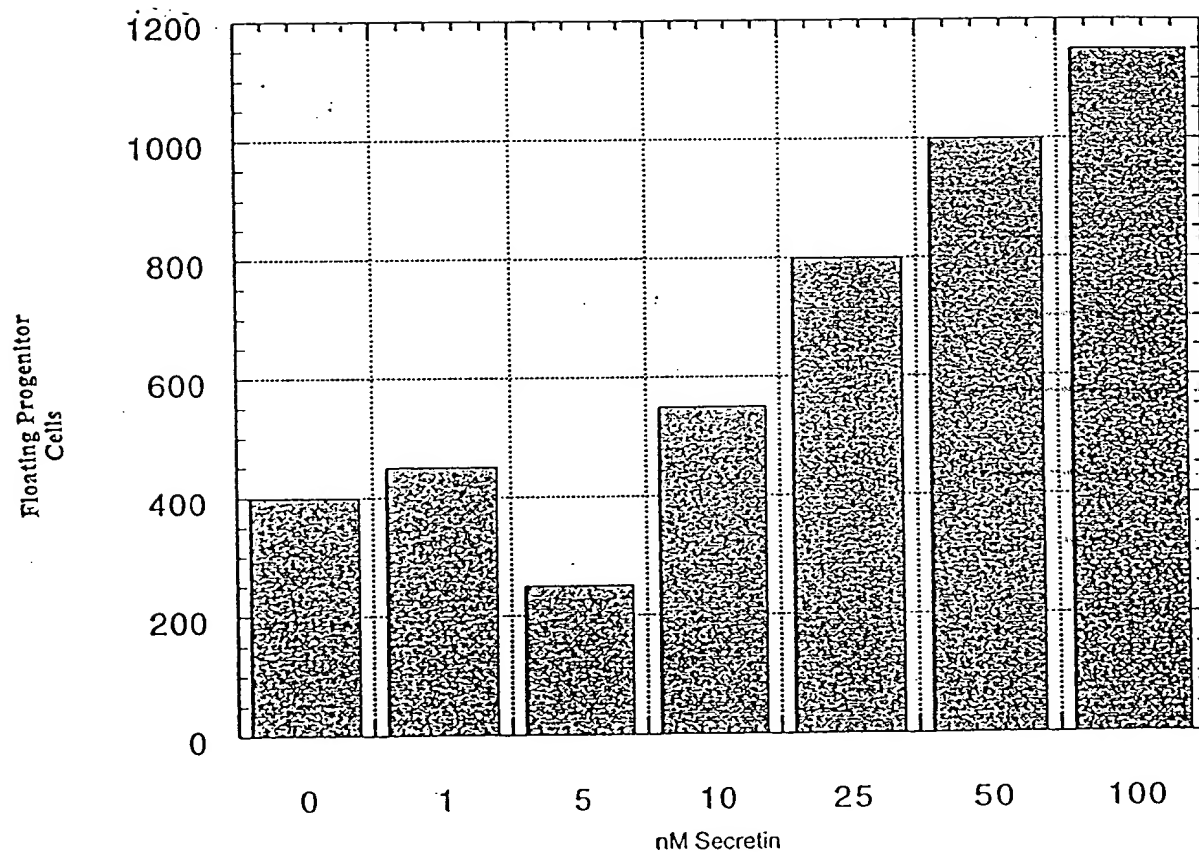


FIGURE 11



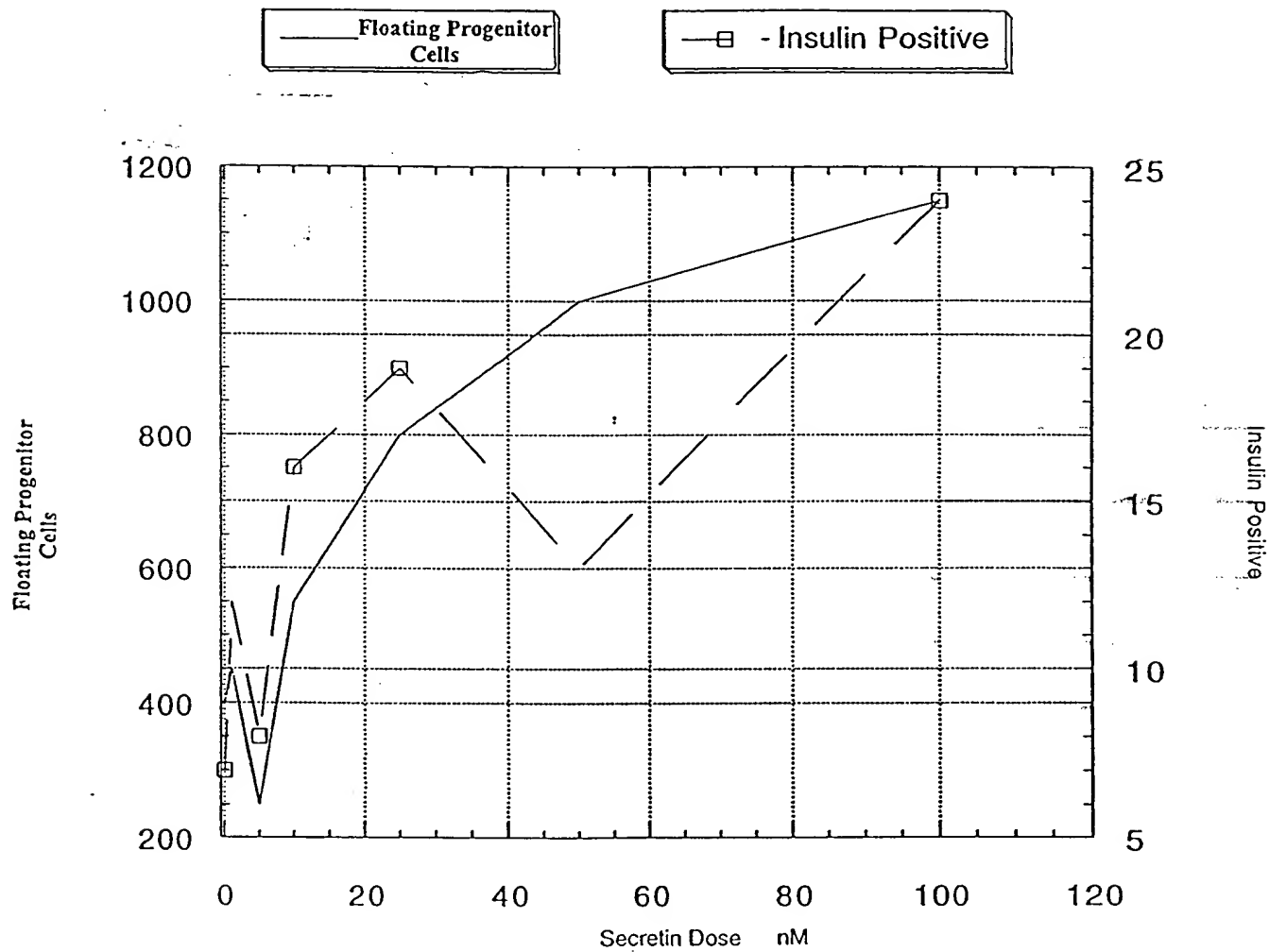
[illegible]

FIGURE B

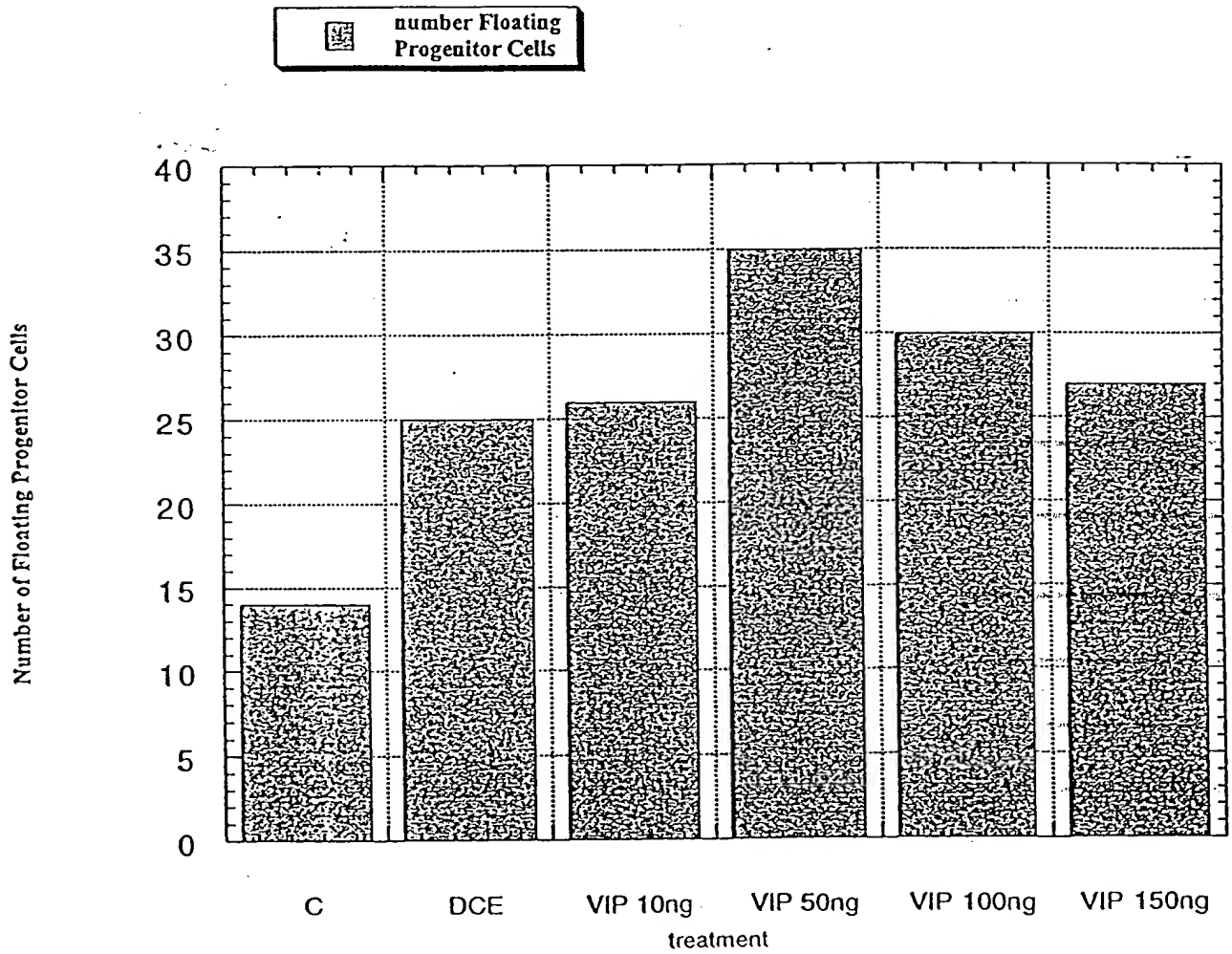
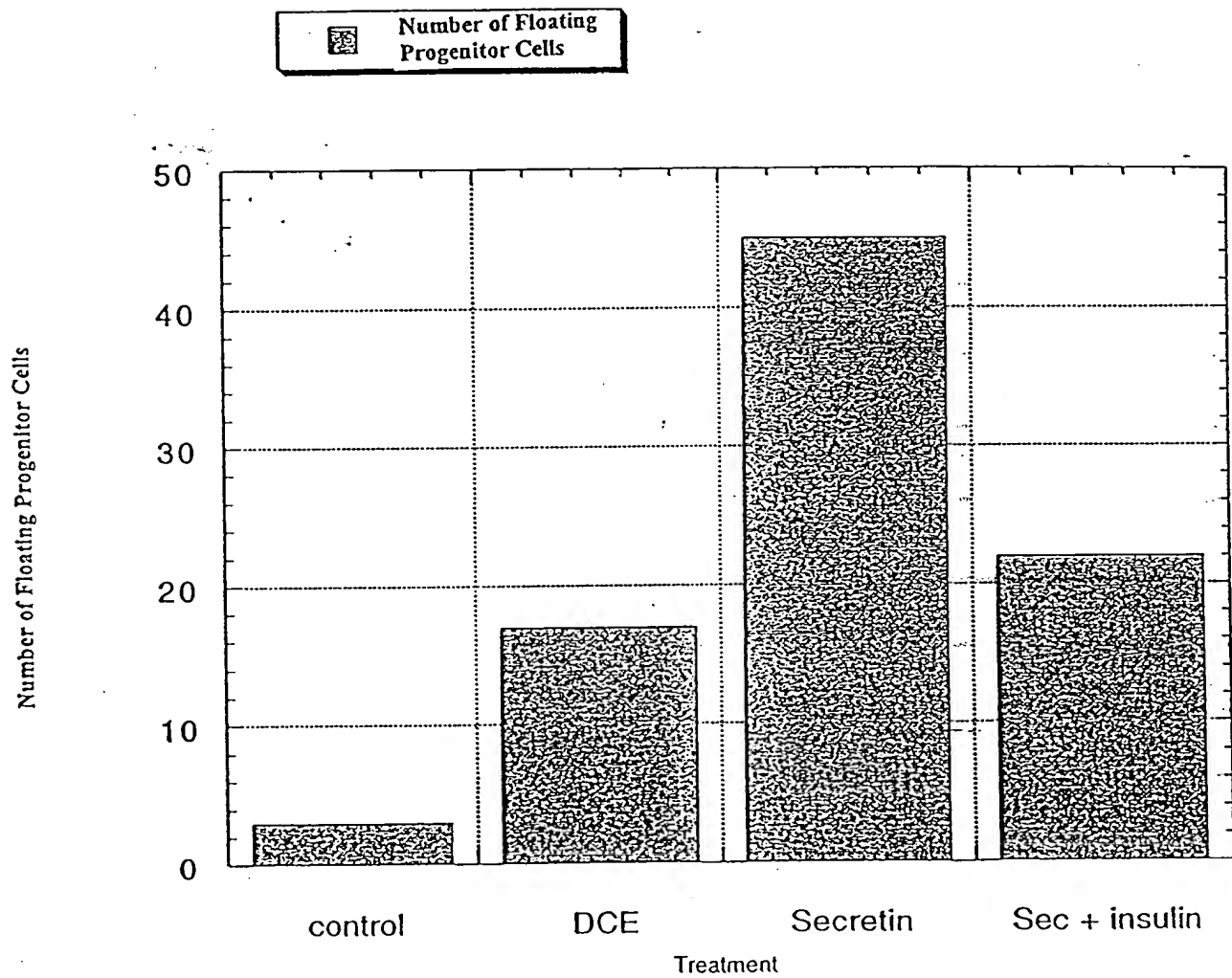


FIGURE 14



# PNA Sorted Percoll Duct Prep (10.20.99 3-drop sort) After 2 weeks in culture on plastic; 10x mag

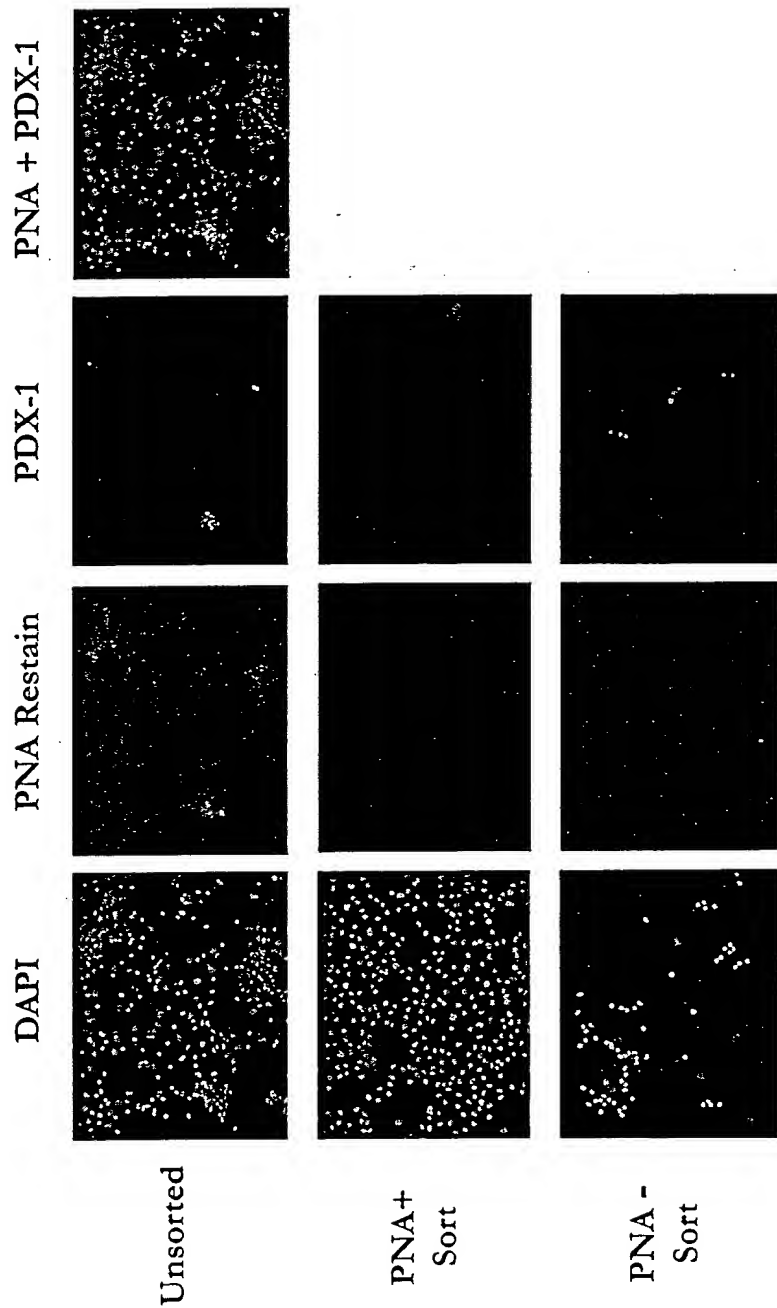
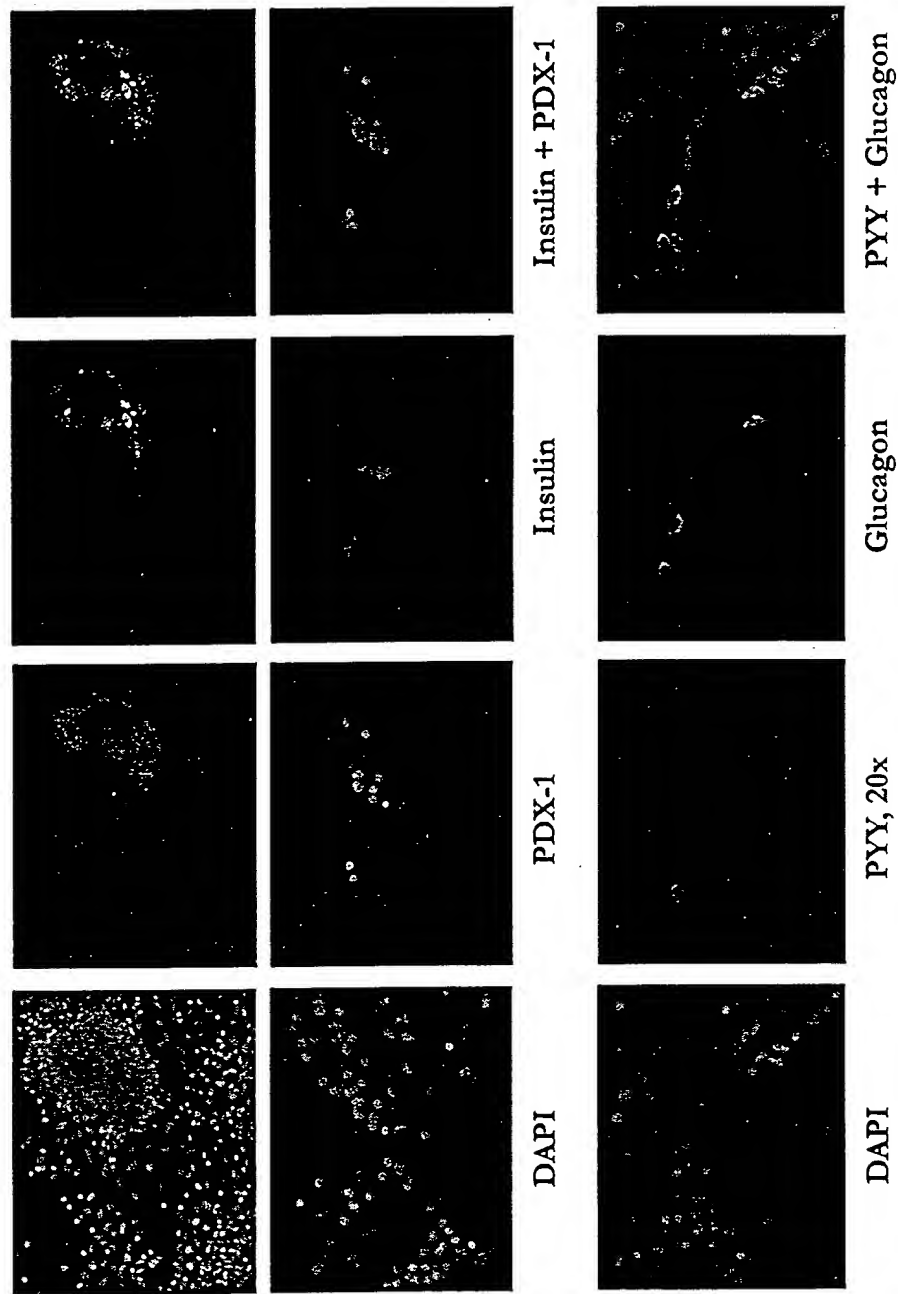


Figure 15

Figure 6b

PreSorted Percoll Duct Prep (10.20.99)  
After 2 weeks in culture on plastic





PreSorted Percoll Duct Prep (10.20.99 )  
After 2 weeks in culture on Plastic

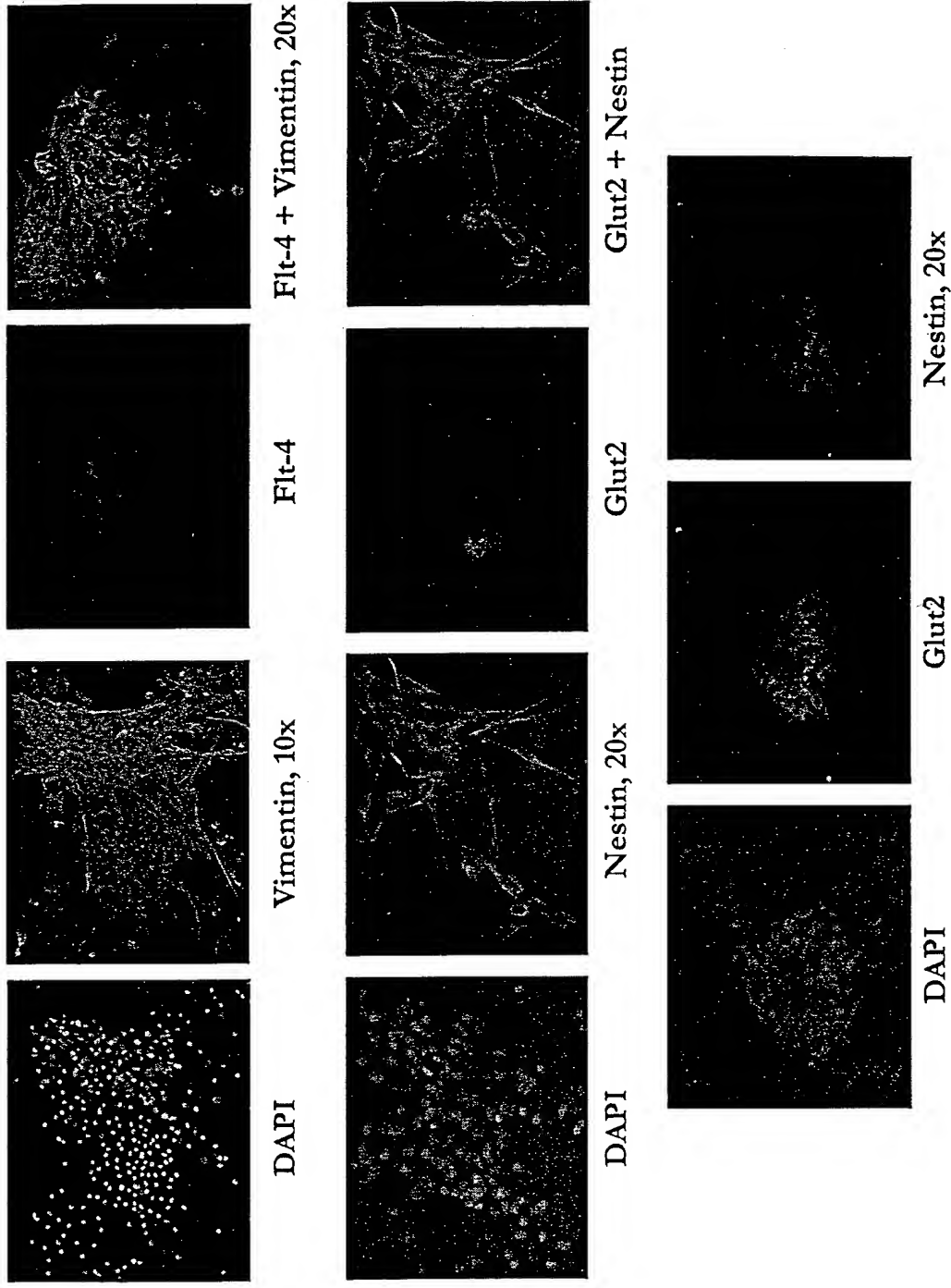
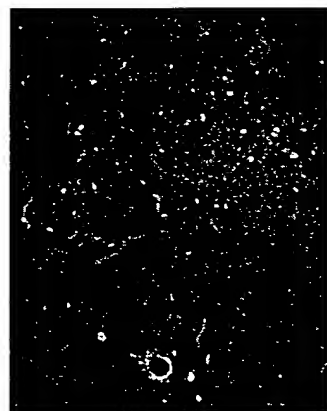
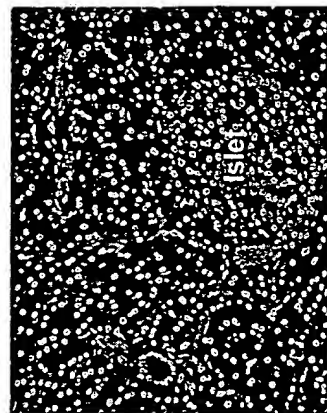
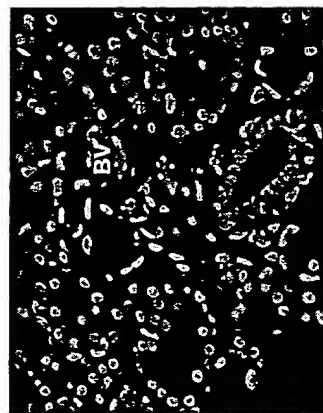


Figure 18

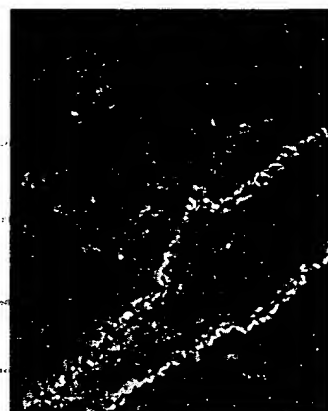
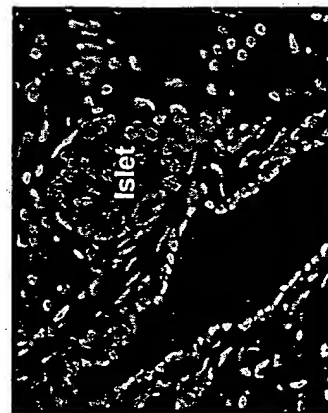
**Lectins on Adult Rat Pancreas:  
Peanut Agglutinin (Arachis hypogaea)  
marks Interlobular Duct Epithelium**



20x



40x

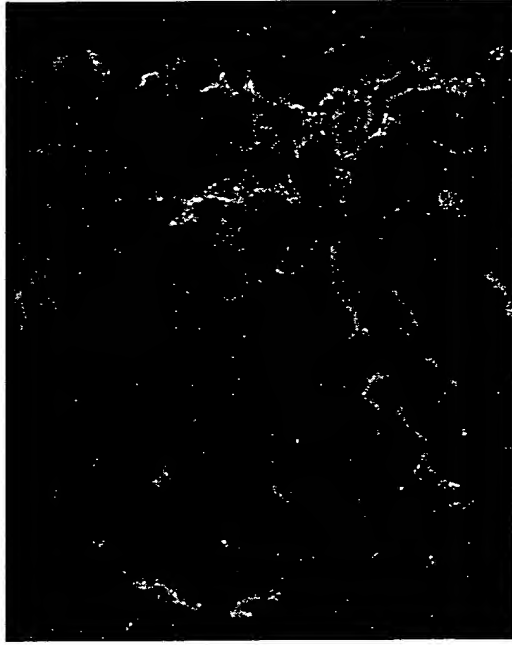


40x

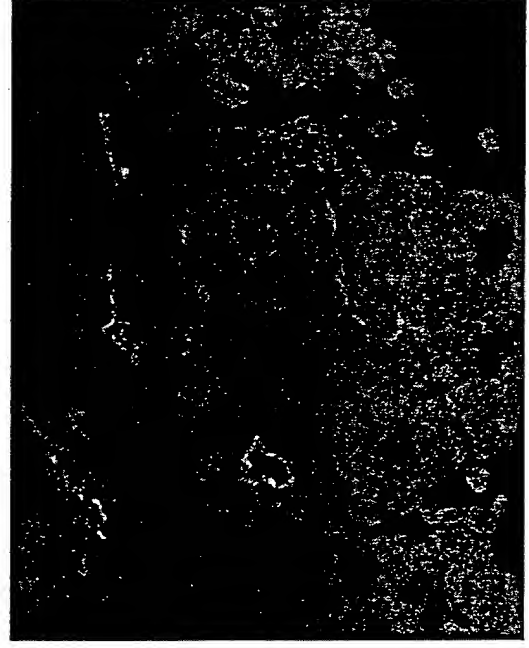
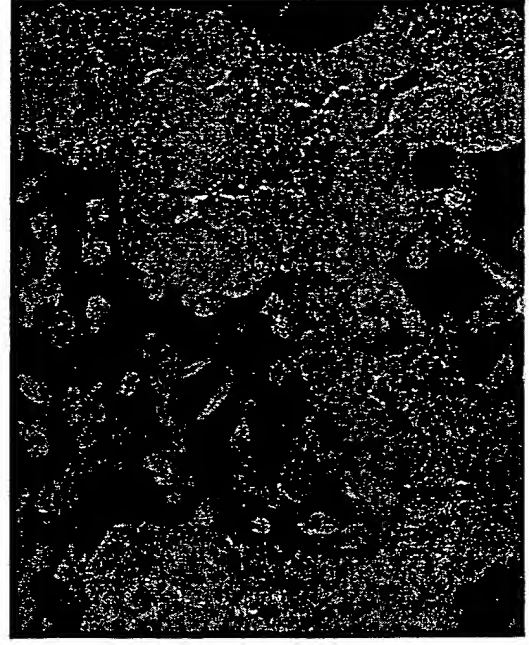
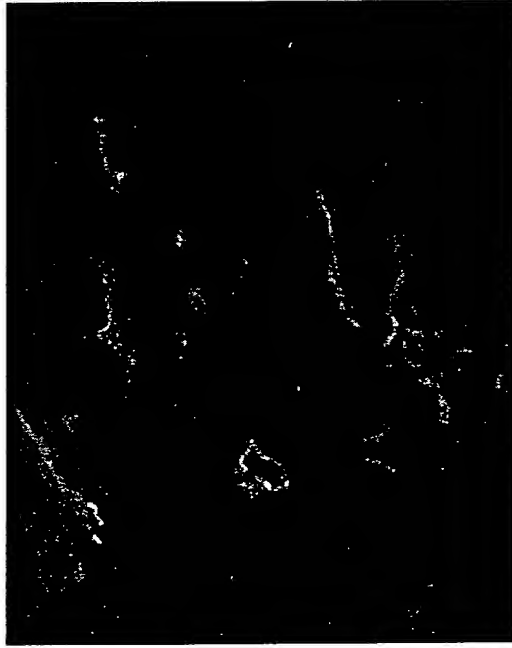
Figure

PNA-FITC staining of epithelium in development, 40x

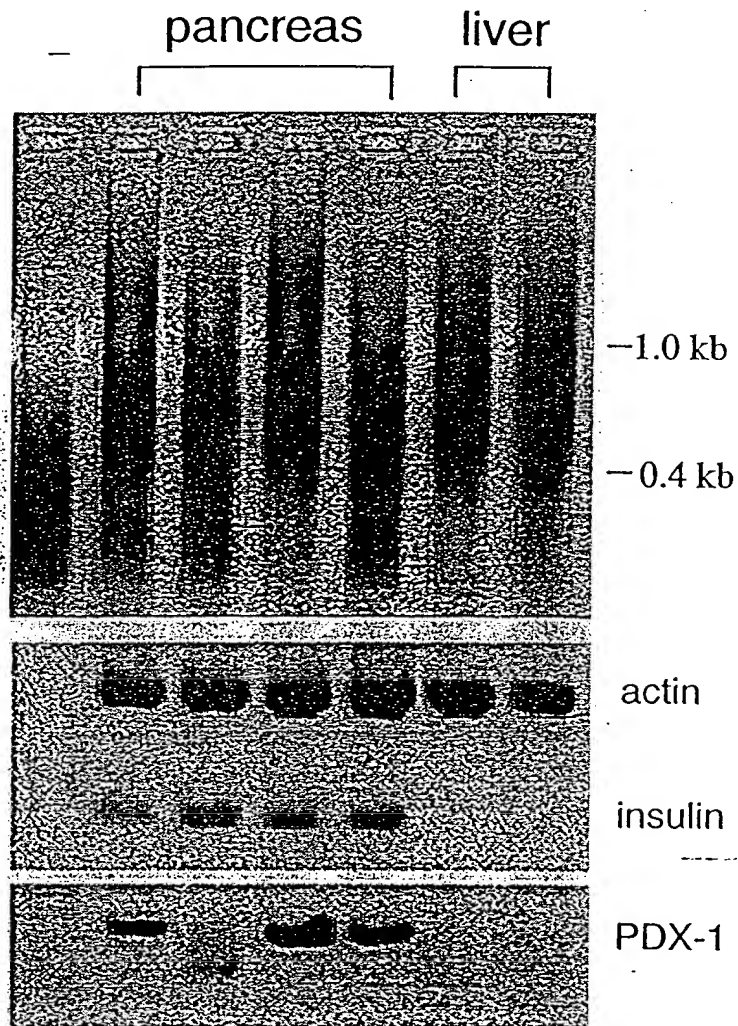
e16 rat



e18 rat



# Single Cell mRNA PCR Amplification



1000 9000 8000 7000 6000 5000 4000 3000 2000 1000 0

1000 9000 8000 7000 6000 5000 4000 3000 2000 1000 0

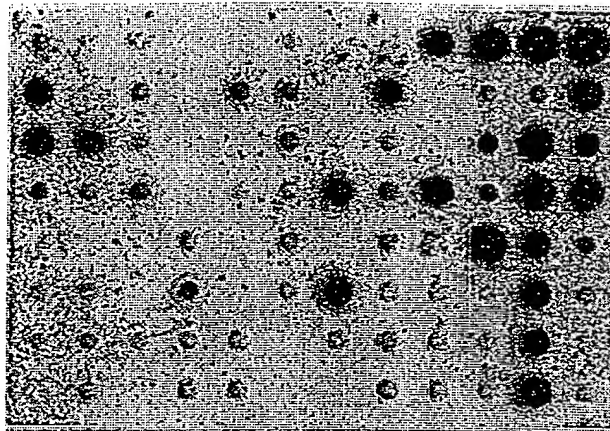
$\beta$ -array

To create a proprietary diagnostic array to identify pancreatic  $\beta$  cell and its precursors

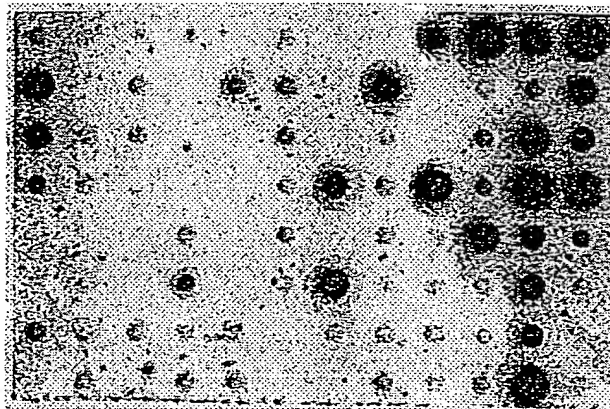
	1	2	3	4	5	6	7	8	9	10	11	12
A	actin	HexoK	PYY	TyrH	SHH	Wnt3	delta	IGF1	TNFR2	PICK1	amphy2	Rho-GDI
B	G3PDH	SubPR	NPY	Rab3A	Patch-1	Wnt5	Jagged	PKA	Pw1	PCTA-RE1	OSF-1	Sez-12
C	G6PDH	insulin	NPYR	activin	SMO	frizzled	DLK	Isl-1	HNF1 $\alpha$	Gli	GP106	SelenoP
D	Rps6	glucagon	Secretin	folistatin	TGF $\beta$ 1	sFRP-1	notch-1	beta2	DCoH	P48	HCNGP	Surf-1
E	Glut4	SomS	nestin	activinR	TGF $\beta$ 2	EGF	notch-2	PDX1	HNF3 $\beta$	ID-1	clusterin	VASP
F	albumin	PP	Chromo graninA	BMB4	TGF $\beta$ R1	EGFR	FGF6	Pax4	HNF4 $\alpha$	IDR	Cab45b	UK-2
G	amylase	IAPP	GLP-1R	BMB4R	PTHrP	SCF	FGF9	Pax6	Nkx2.2	MITF	HBP	UK-4
H	CarbP	Glut2	CK19	BMB6	PTHR	c-Kit	FGFR1	COUP-TFII	Nkx6.1	SUG1	RP2	UK-6

FIGURE 23

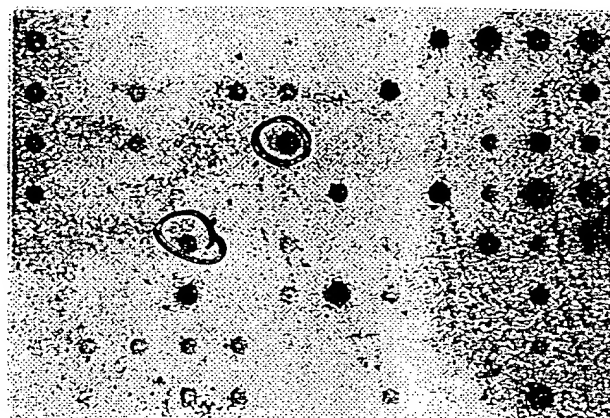
## Single Cell Gene Expression Profiling



islet



E15 ins<sup>+</sup>/PDX<sup>+</sup>



heart

006030" 0255960

FIGURE 24

# Quantitative Analysis of Single Cell Gene Expression

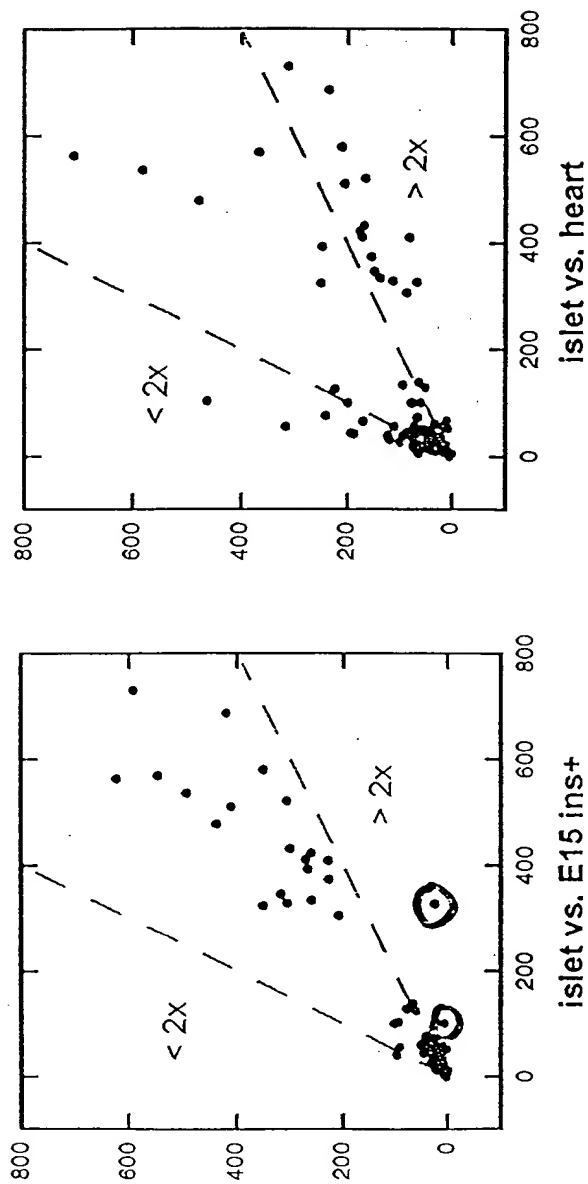
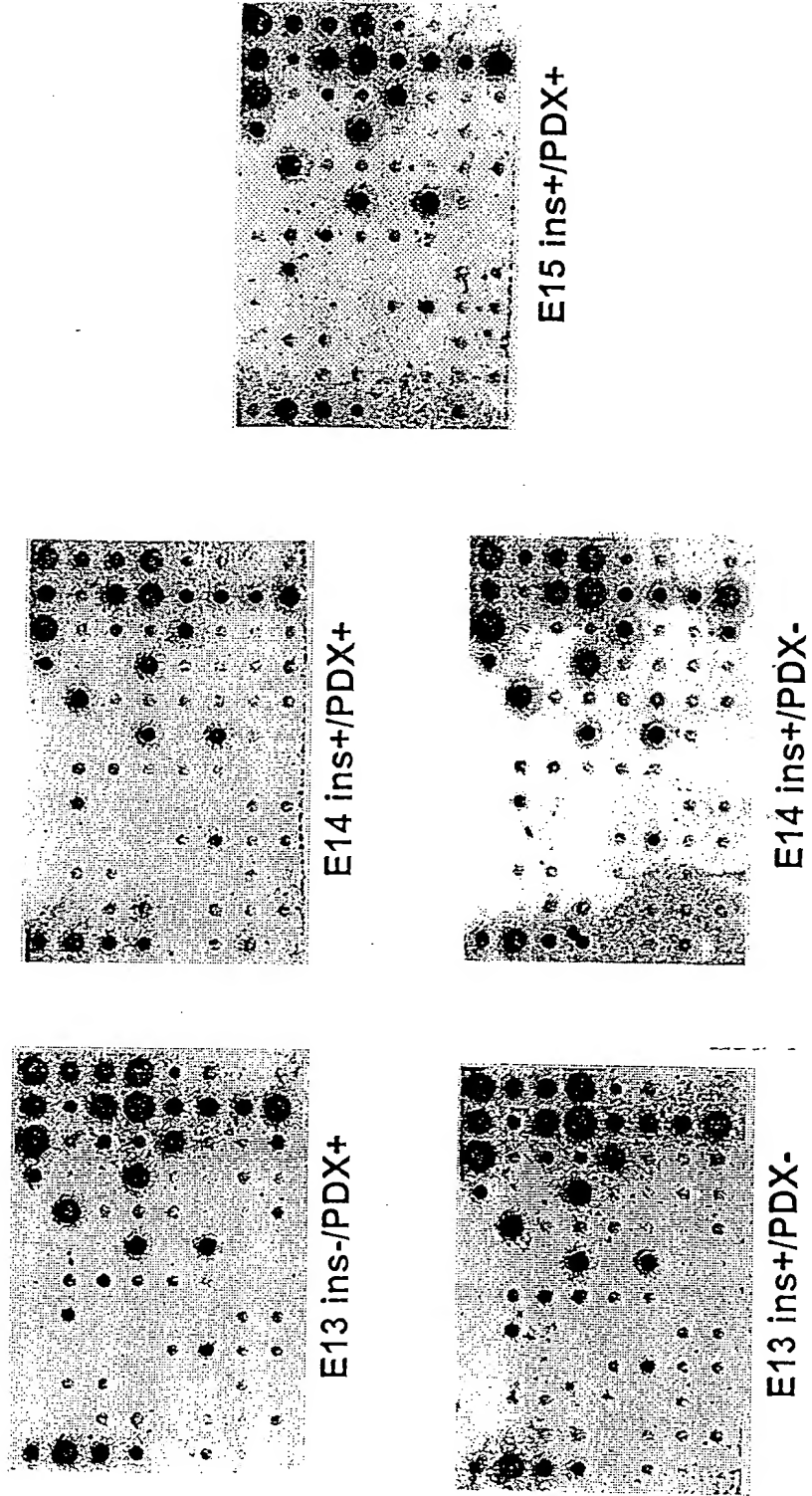




FIGURE 25

Single Cell Gene Expression Analysis of beta Cell Lineage Pathway



# Quantitative Analysis of Single Cell Gene Expression

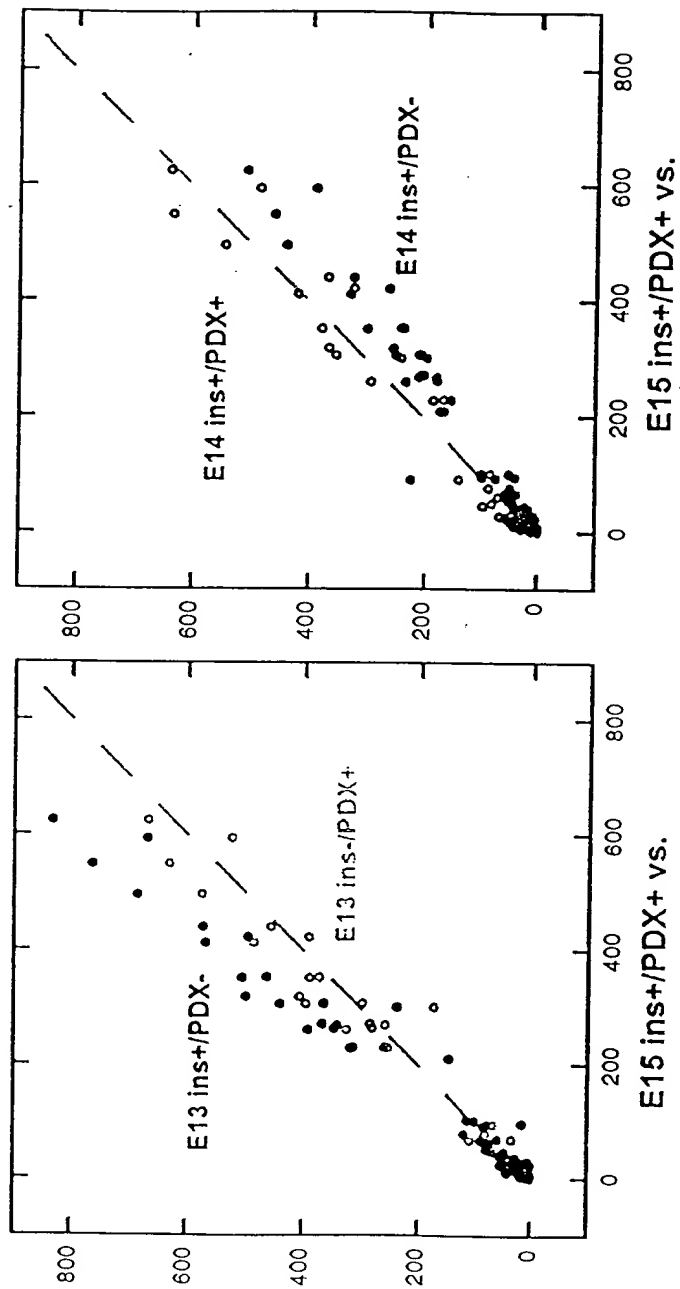


FIGURE 26

FIGURE 27

Gene Expression Profiling of the Single Beachball Cells

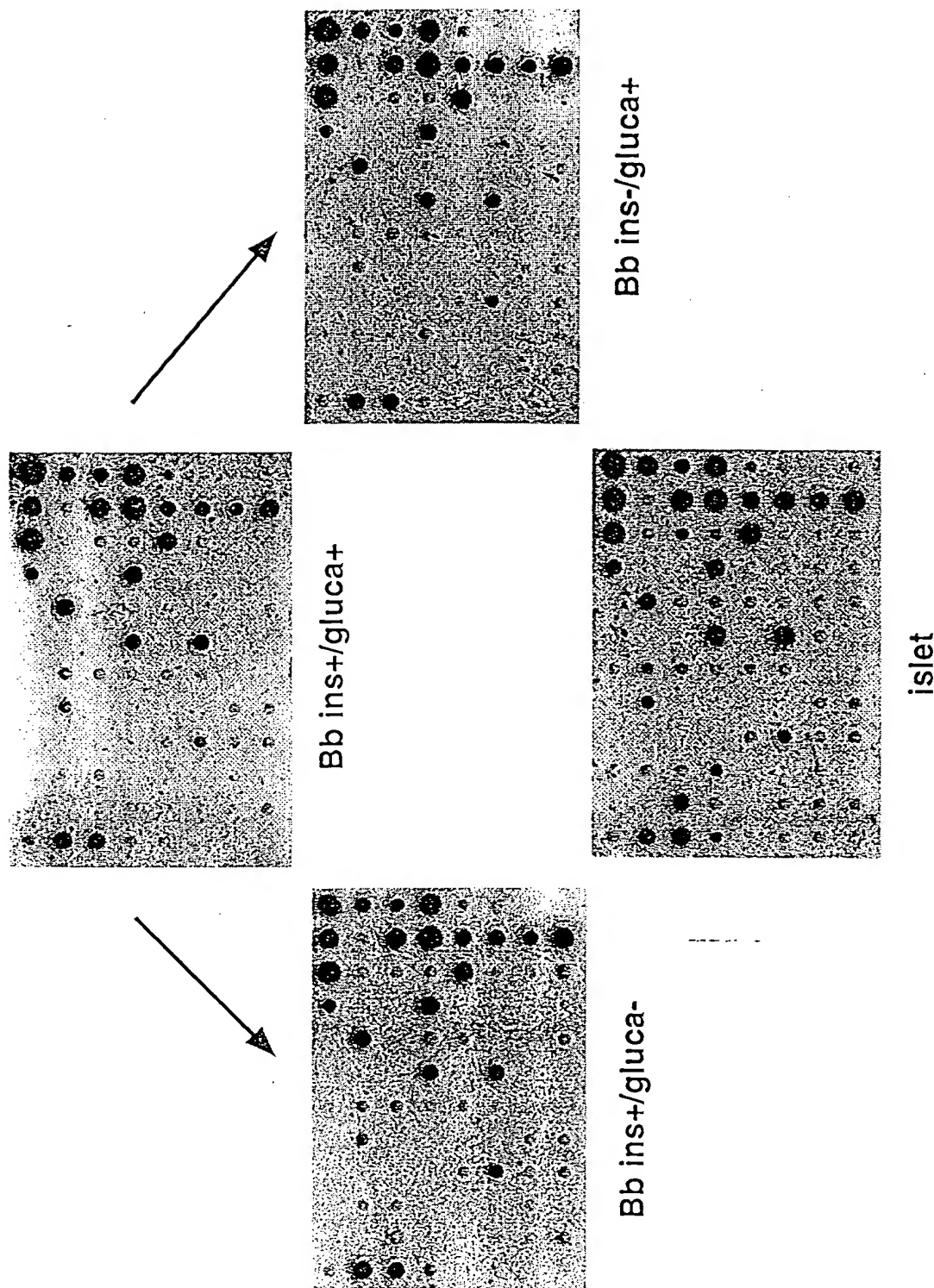
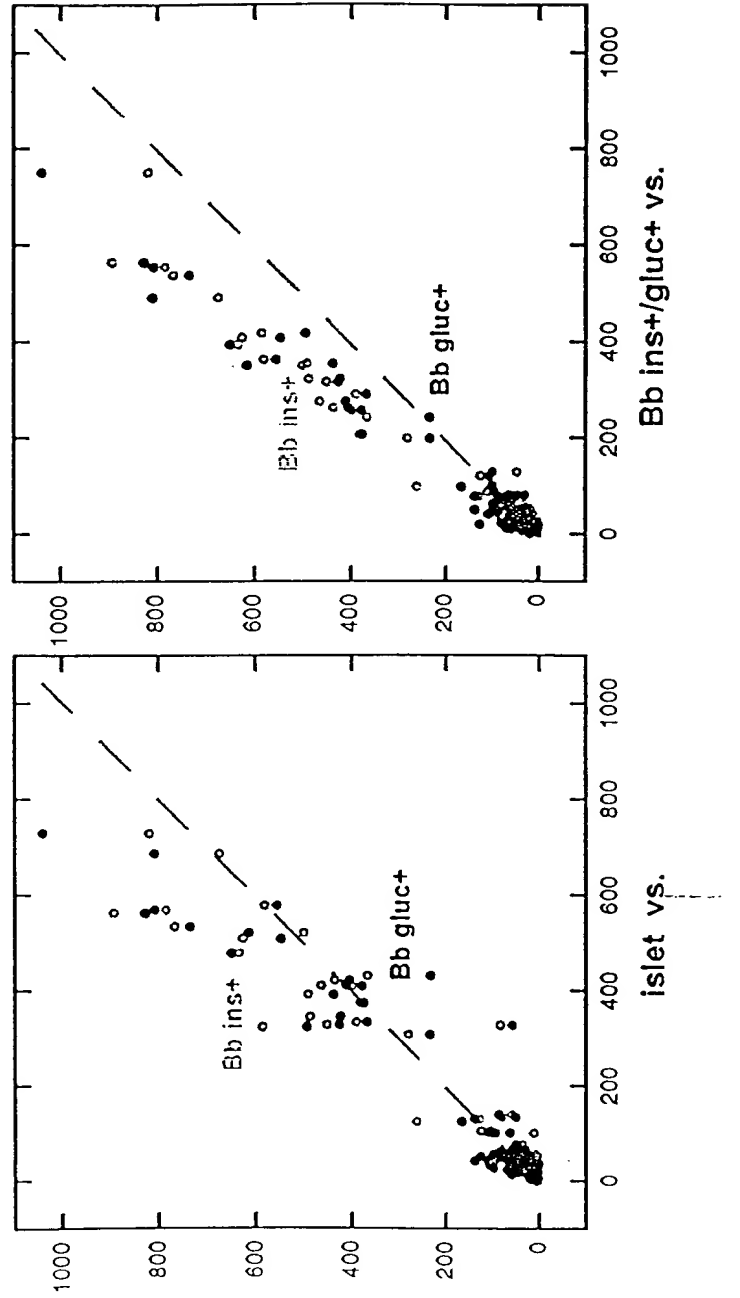


FIGURE 28

Quantitative Analysis of Single Cell Gene Expression



# Differential Expression of the Pancreatic Genes in Adult Islet and during Development

<u>Gene Name</u>	<u>islet/E15 ins+</u>	<u>islet/Bb ins+</u>
Secretin	16	8
insulin	13	4
glucagon	3	2
IGF1	6	6
nestin	5	3
Rab3A	5	2
Glut2	2	1.3
ChromograninA	4	3
PDX1	3	2
Isl-1	2	2
EGF	4	2
NPYR	4	1.3
TGFb1	4	3
TGFbR1	6	2
delta	26	18
DLK	3	4
Wnt3	3	2
Gli	2	2
SMO	4	6
COUP-TFII	0.9	1.1

000000"02ESE960

Figure 30

Lectins on Adult Rat Pancreas:  
ConA, 20x  
not  $\beta$  cell-specific

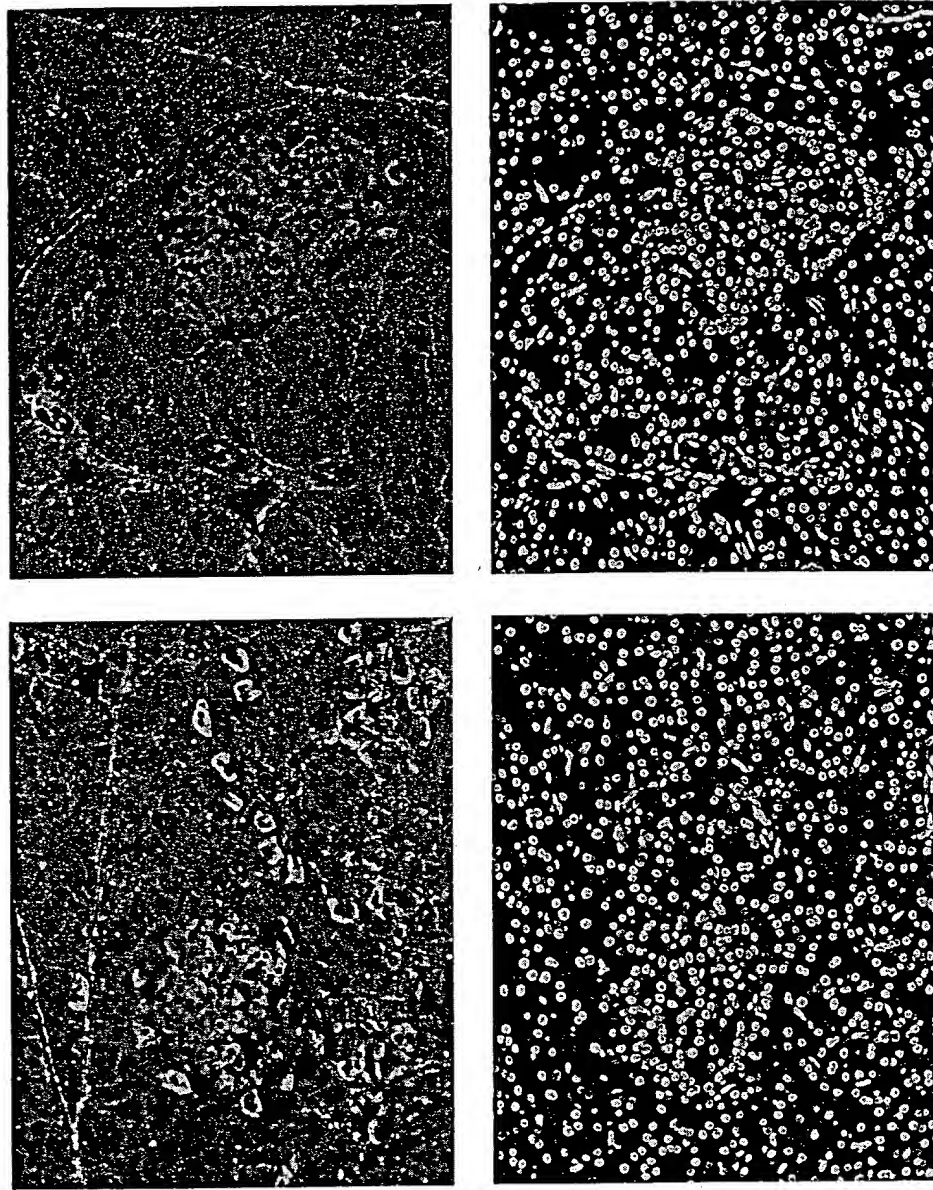


Figure 31

**Lectins on Adult Rat Pancreas:  
RCA II (Ricinus Communis Agglutinin II)**

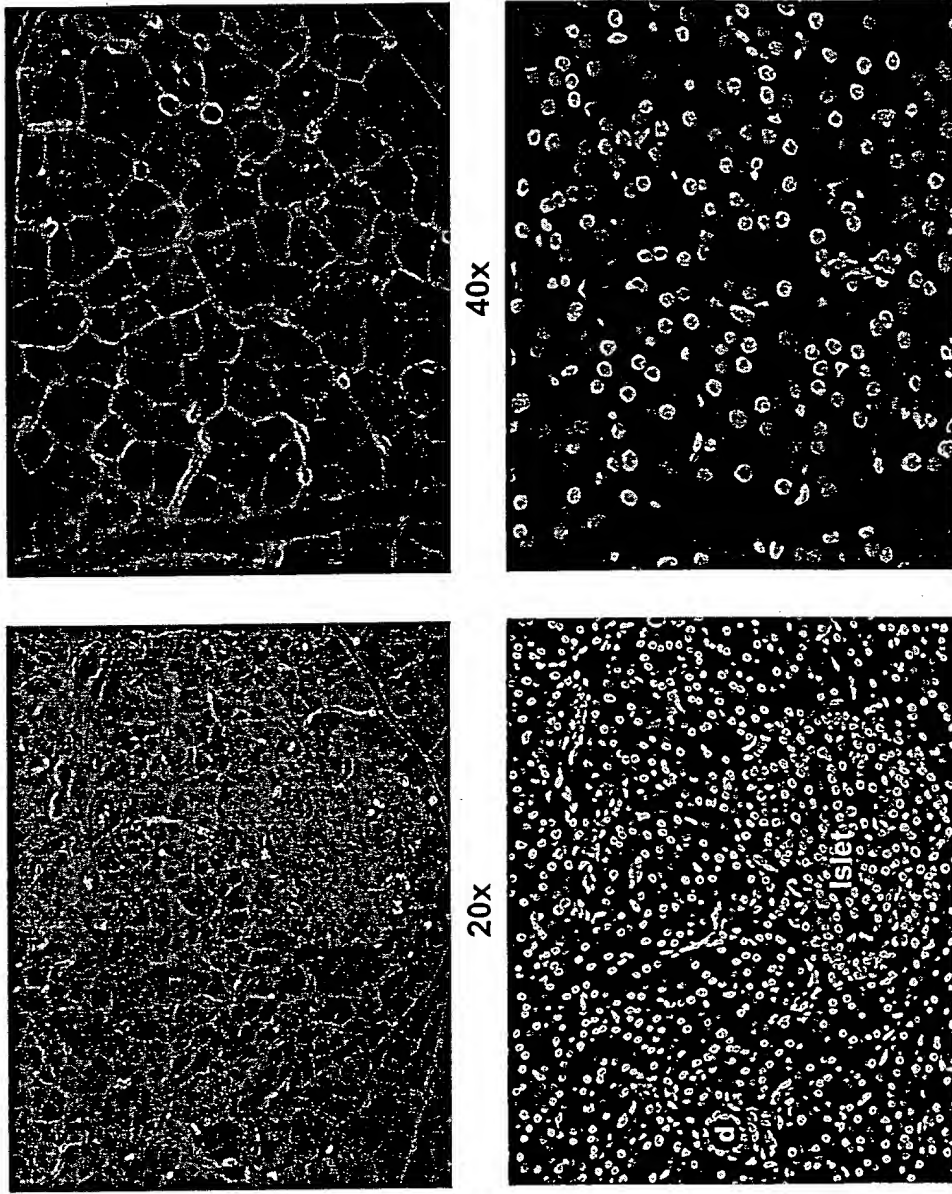
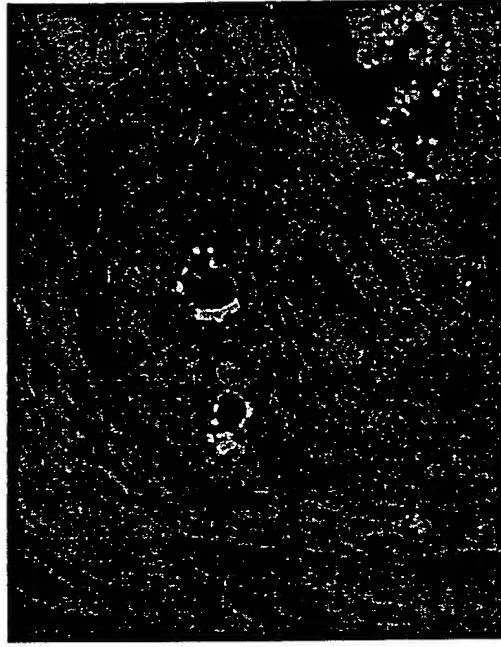


Figure 32

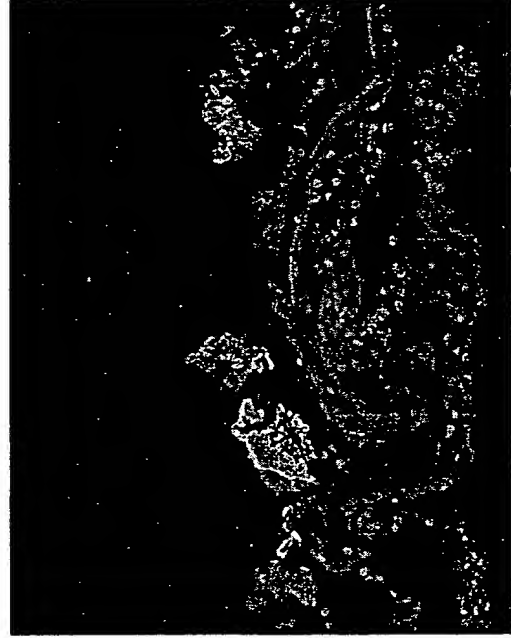
Lectin Staining of Human Pancreas:  
Peanut Agglutinin



Interlobular Ducts, 20x (Negative)



Subpopulation of Epithelium



Positive Epithelial Cells



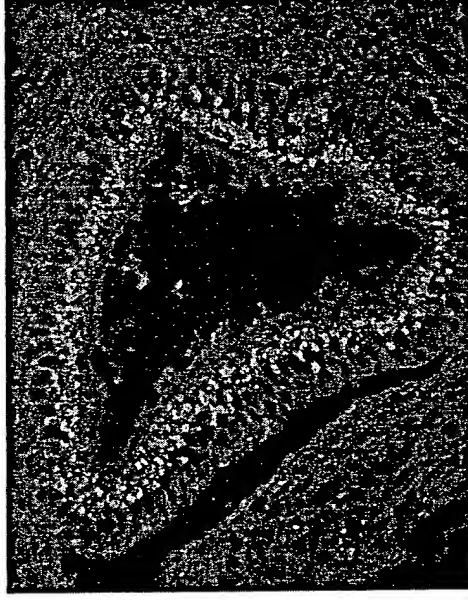
Interlobular Duct, 40x



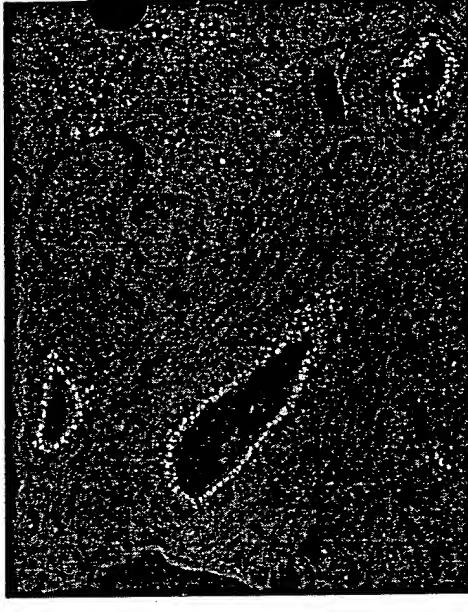
Figure 33

- ConcanavalinA marks interlobular and main ducts in human pancreas
- ConA is also a  $\beta$  cell marker for human pancreas

Lectin Staining of Human Pancreas:  
ConcanavalinA



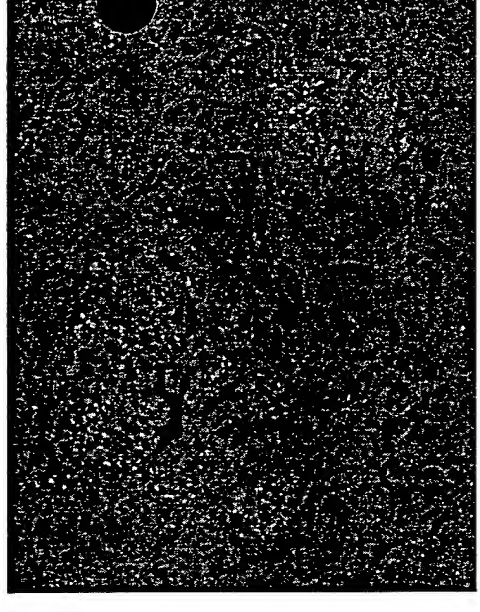
Interlobular Duct, 40x



Interlobular Ducts, 20x



DAPI



Islets, 20x

Figure 34

Lectin Staining of Human Pancreas:  
20x mag



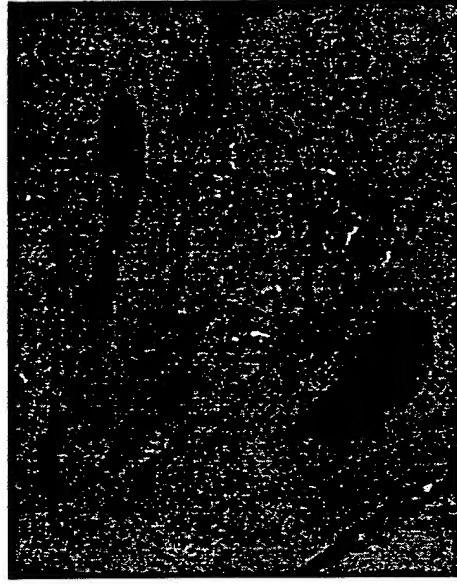
DSL, *Datura stramonium*



LCA, *Lens culinaris* Agglutinin



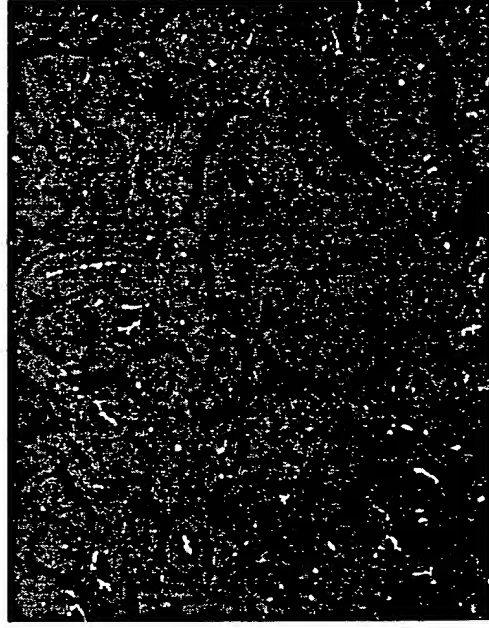
Succinylated-WGA



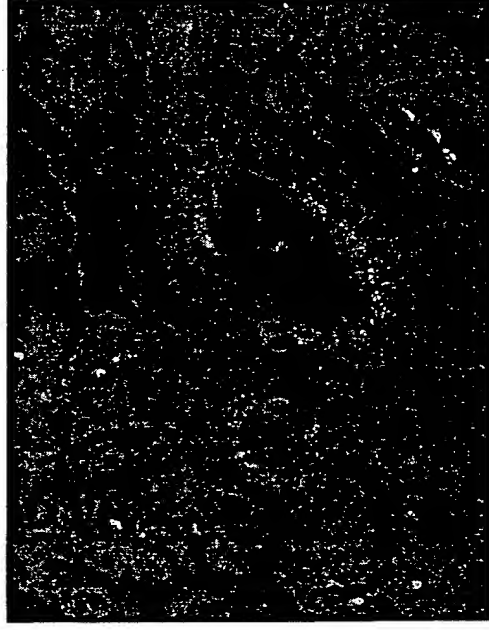
ECL, *Erythrina cristagalli* Lectin

Figure 35

Lectin Staining of Human Pancreas:  
PHA-L, Phaseolus vulgaris leucoagglutinin



20x, Intralobular Ducts



40x, Interlobular and Intralobular Ducts

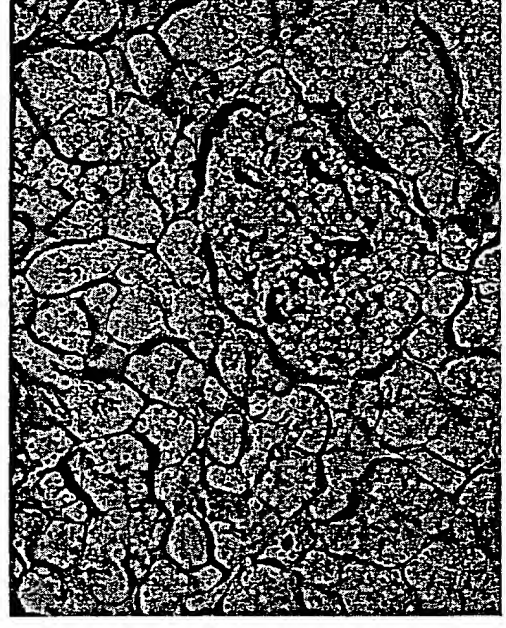
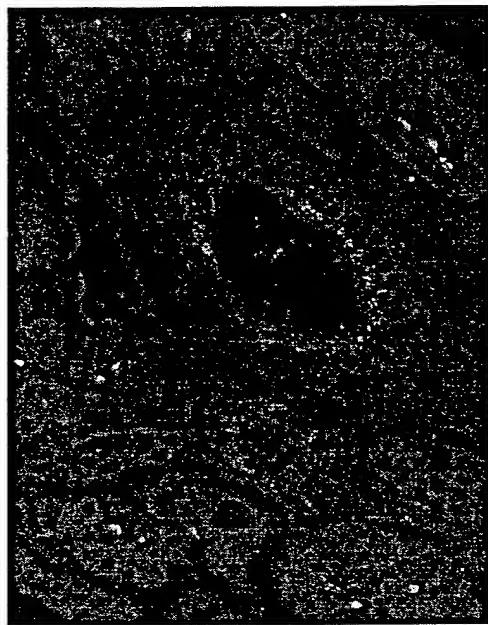


Figure 36

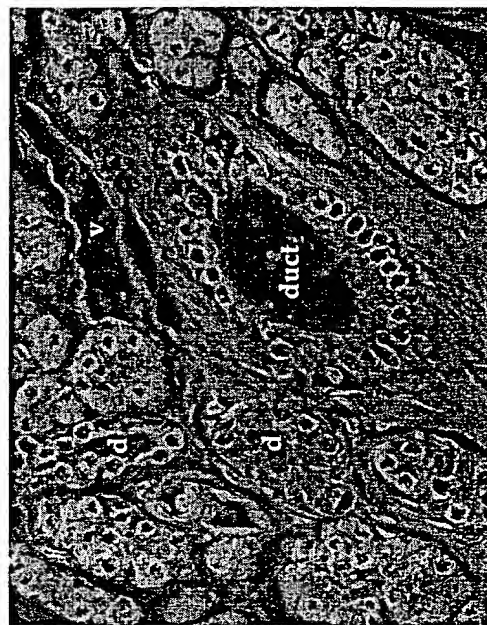
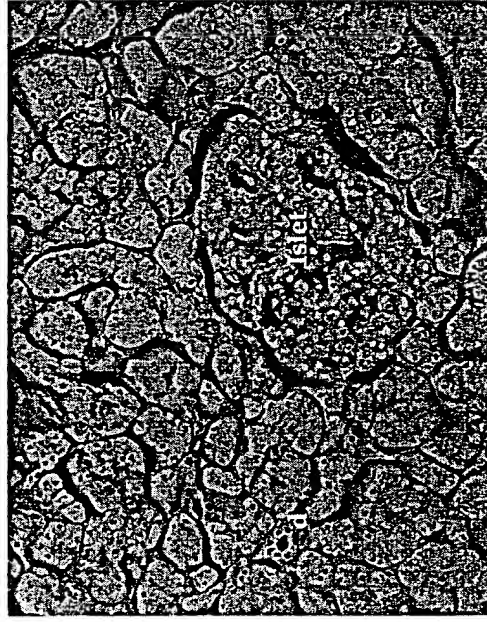
Lectin Staining of Human Pancreas:  
PHA-L, Phaseolus vulgaris leucoagglutinin



20x, Intralobular Ducts

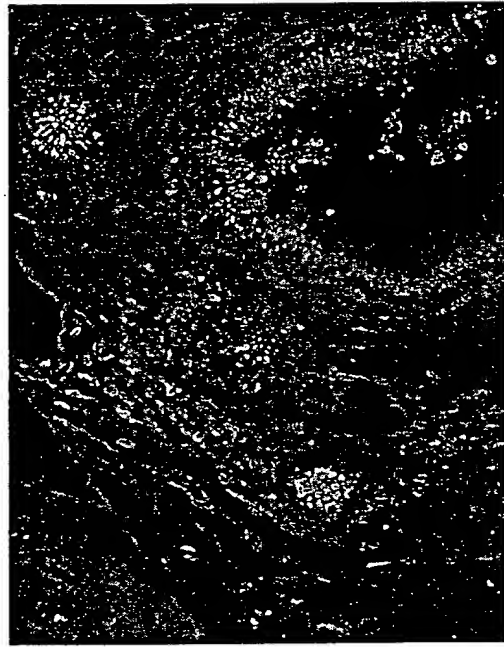


40x, Interlobular and Intralobular Ducts



Lectin Staining of Human Pancreas:  
Ricinus Communis Agglutinin, 20x mag

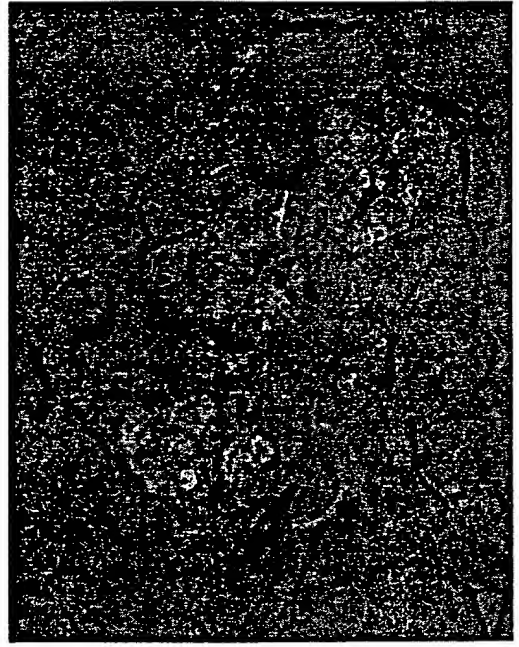
Figure 37



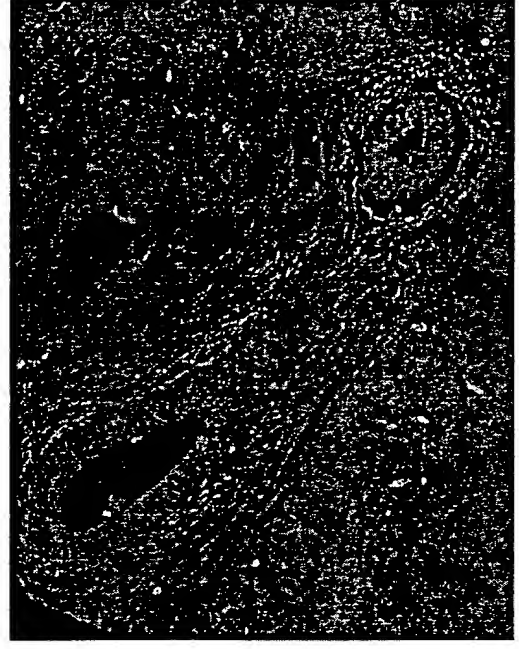
RCA-I, Ducts and Mesenchyme



RCA-II, Small Ductules & Mesenchyme



RCA-II, Islets

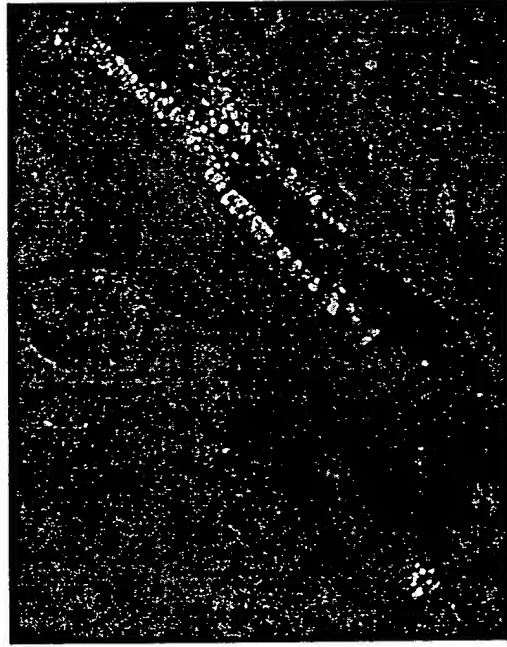


RCA-II, Small Ductules & Mesenchyme

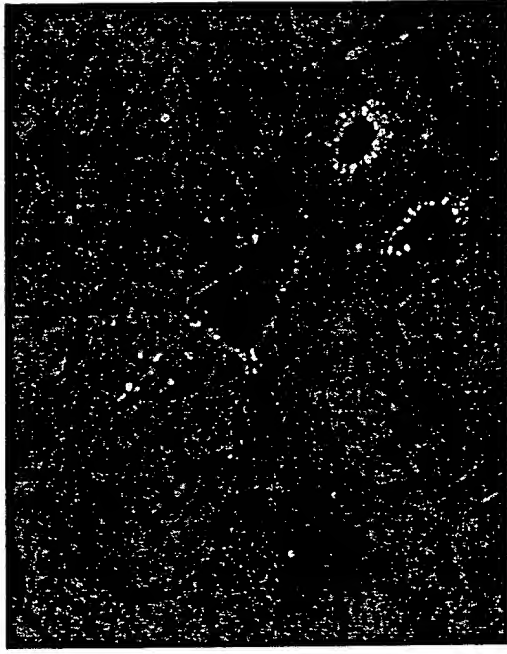


Lectin Staining of Human Pancreas:  
UEA-I, Ulex Europaeus Agglutinin I

Figure 38



Duct Epithelium, 20x



Interlobular Ducts, negative Islet, 20x



Main and Interlobular Ducts, 10x



Main and Interlobular Ducts, 20x

Figure 39

Lectin Staining of Human Pancreas:  
Wheat Germ Agglutinin

(Duct epithelium, Mesenchyme, Islets, Blood vessels, RBCs)

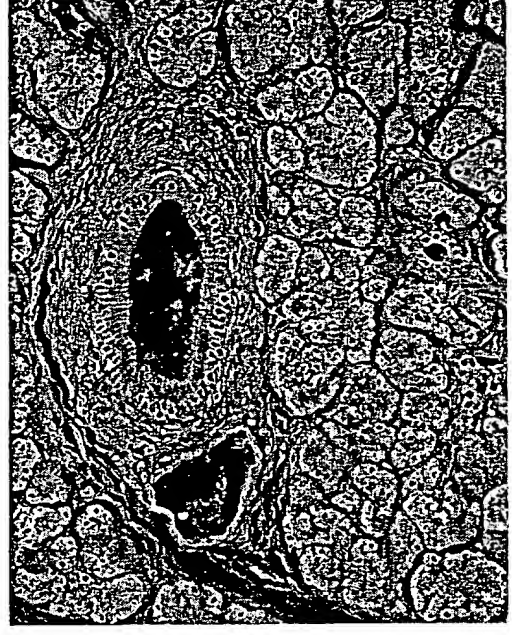
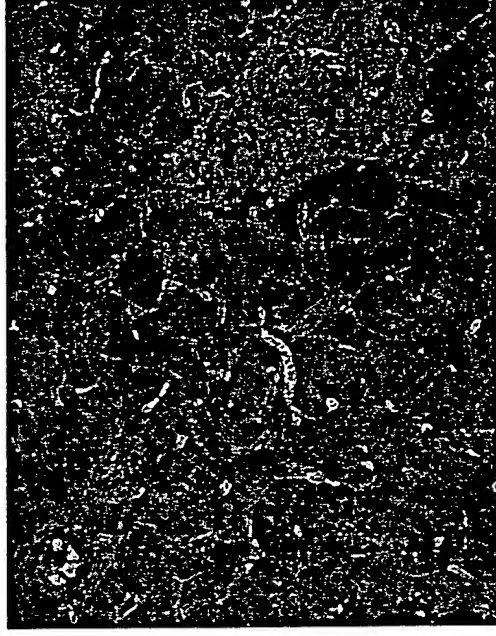
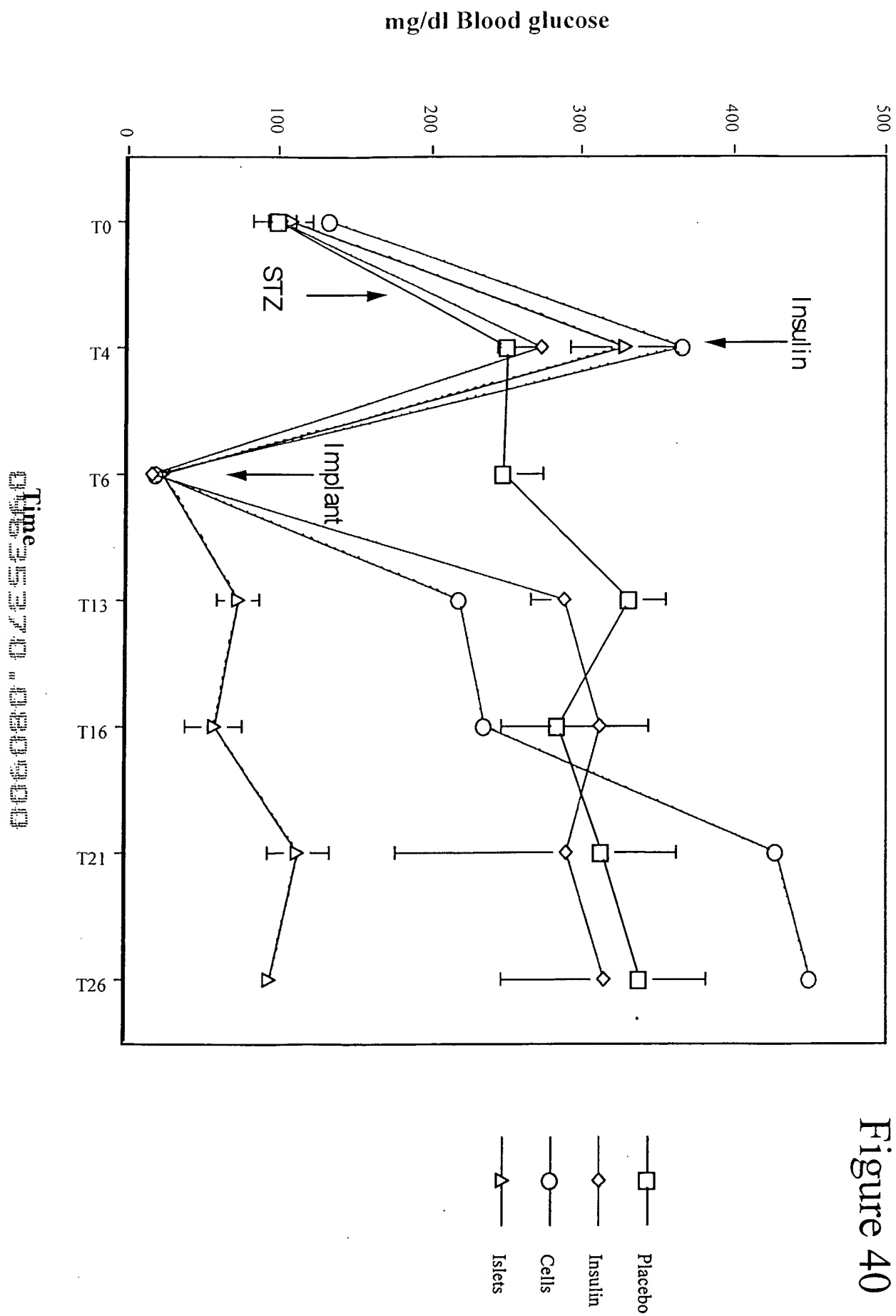


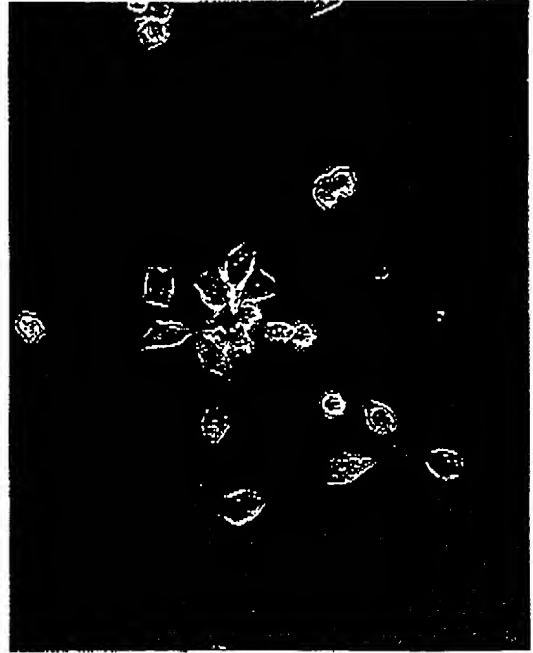
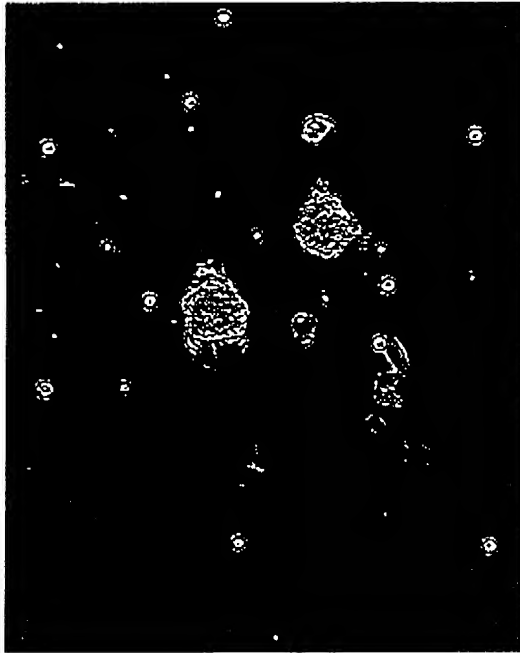
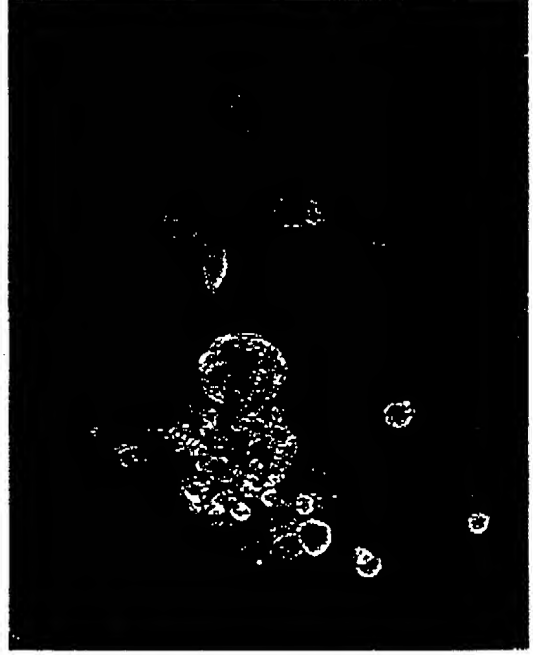
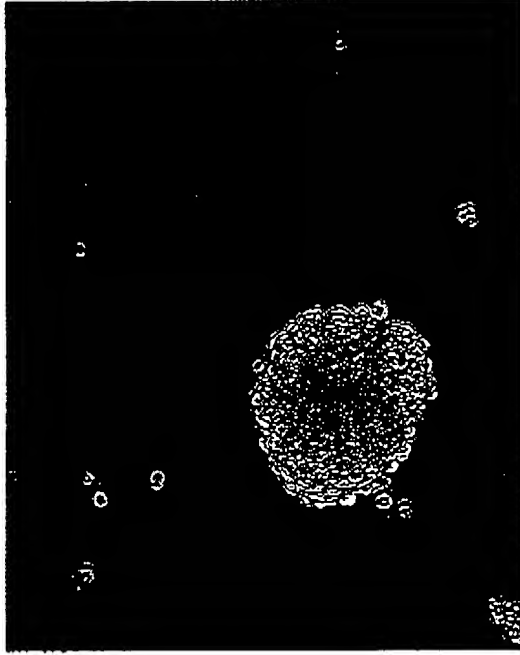
Figure 40





000000-02553610

# Duct Spheres in Expansion Medium ( Neural Sphere Medium )



Spheres

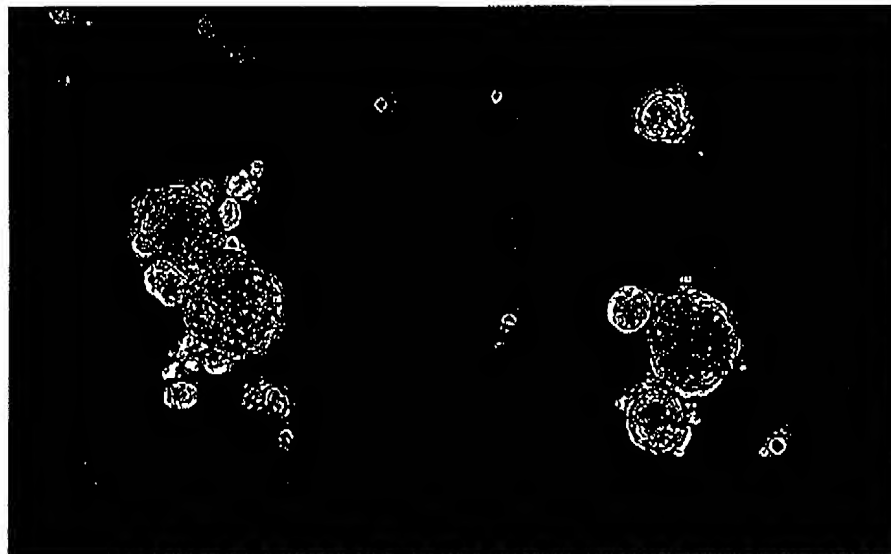
Attached  
Cells

Fig 41

Fig 12

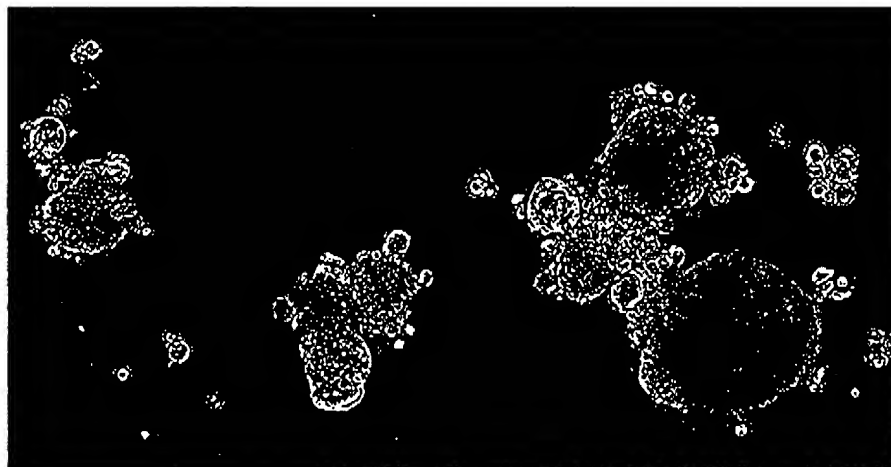
**p14 Duct Prep grown in Spher Media  
on Non-TC surface, p3**  
all 10x mag

**Media 1**  
**KO-B**  
**+ 15% KO-SR**  
**+ TGFa + HGF**  
**+ IGF-I&II**  
**2mM Glucose**



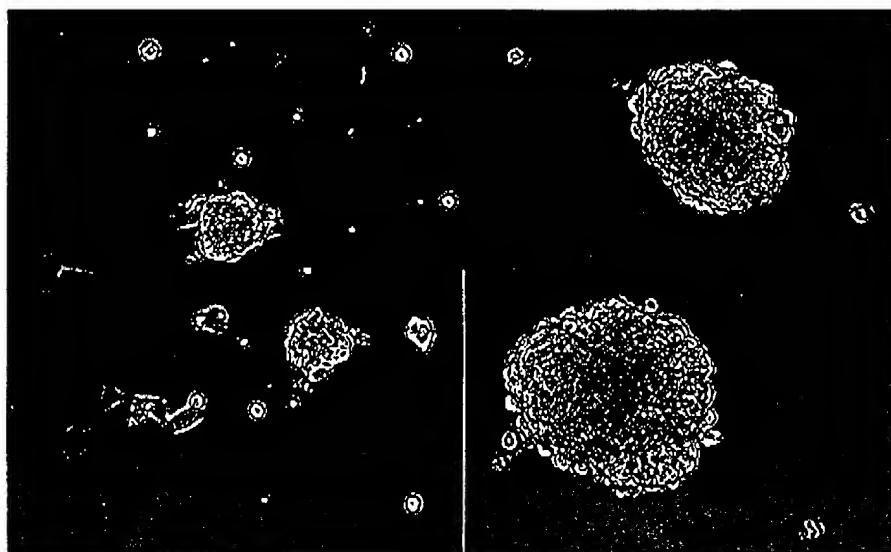
**Slower growth**  
**Fewer spheres**  
**Healthy**

**Media 3**  
**Liver Basal**  
**+ 15% KO-SR**  
**+ TGFa + HGF**  
**+ IGF-I&II**  
**11mM Glucose**



**Very fast growth**  
**Many sph res**  
**Less healthy**

**Neurosphere**  
**Medium**  
**+ Ins + EGF**  
**+ bFGF + LIF**  
**17mM Glucose**

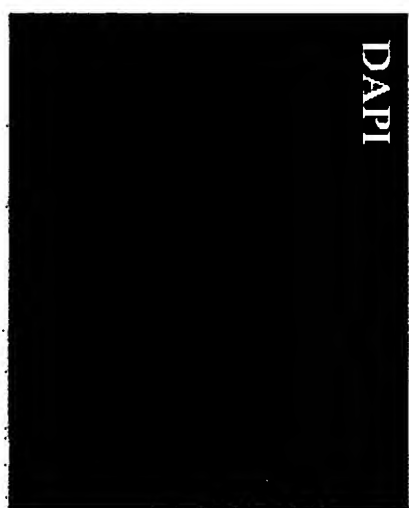
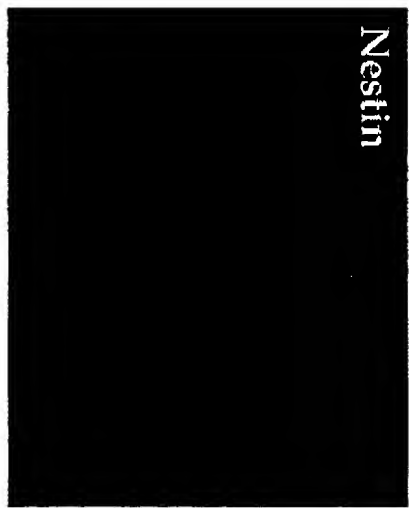
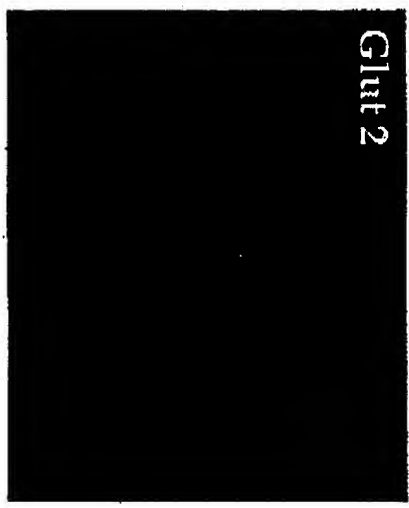
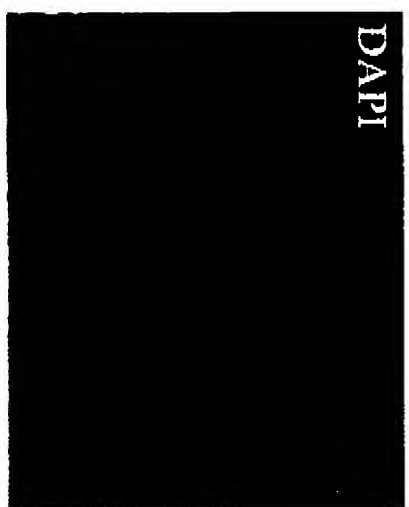
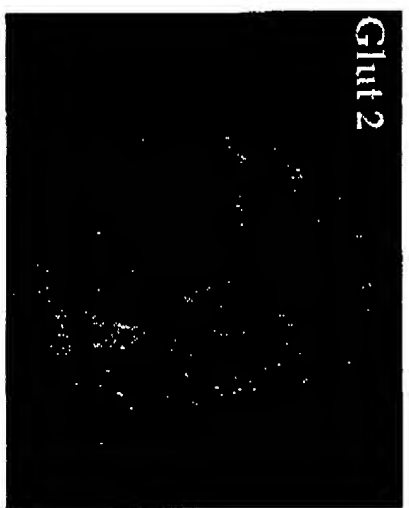


**Very healthy**  
**Very slow growth**  
**Few sph res**

00635370 000000

Fig 3

# Duct Sphere Cell in Vitro Differentiation - Glut 2 / Nestin

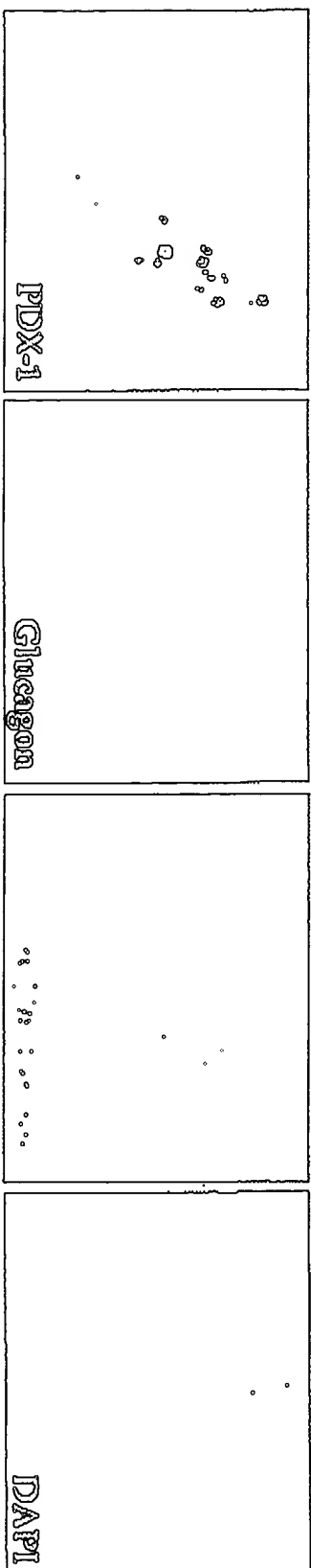


09635370-080900

Fig 44

# Duct Sphere Cell in Vitro Differentiation - PDX / Glucagon

## Single Cluster



## Two Clusters

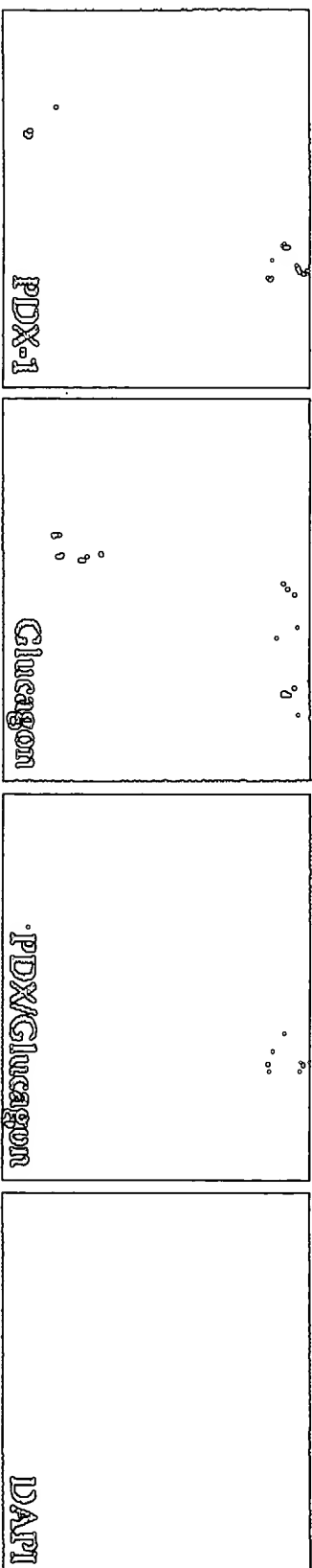
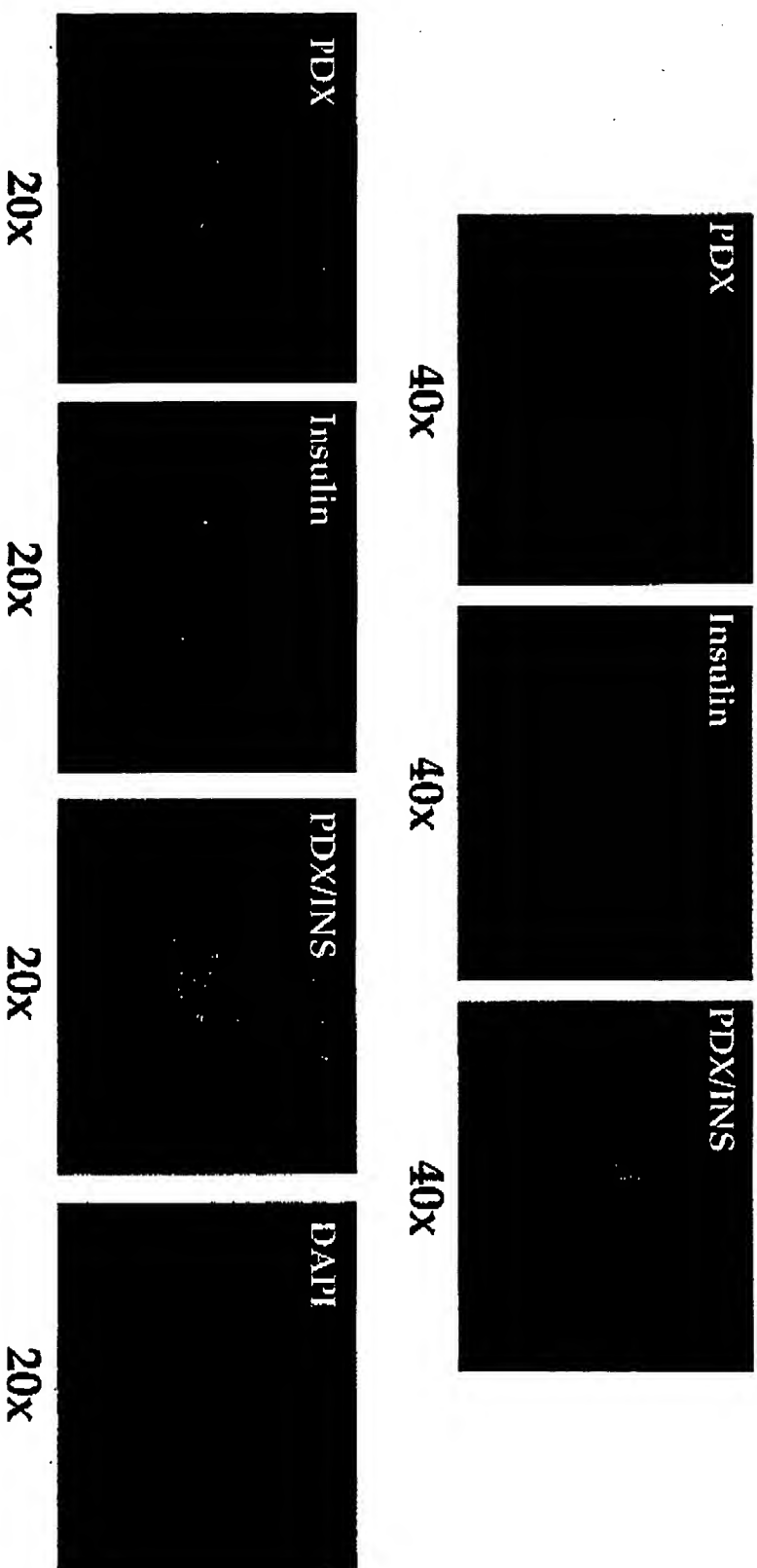


Fig 4b

# Duct Sphere Cell in Vitro Differentiation - PDX / Insulin

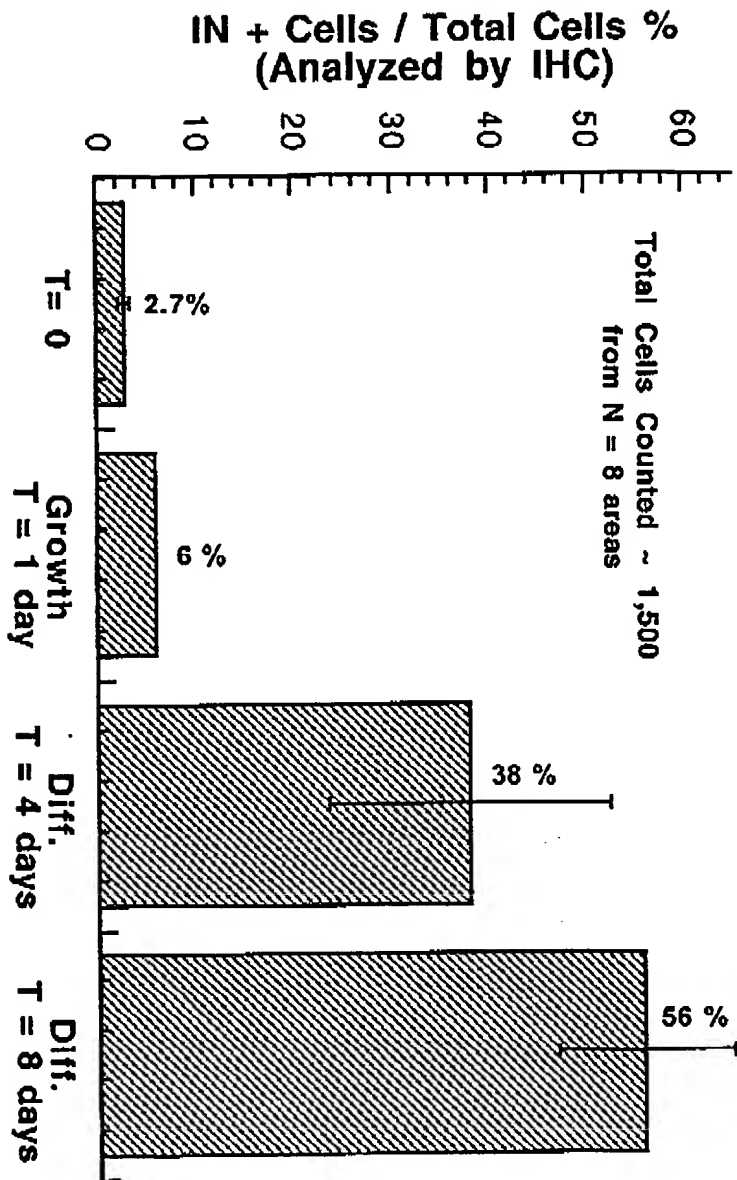


09635370.080900

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August 7, 2000

Figure 46A

**Insulin Positive Cells in Primary Duct Spheres  
During Growth and Differentiation in Vitro**

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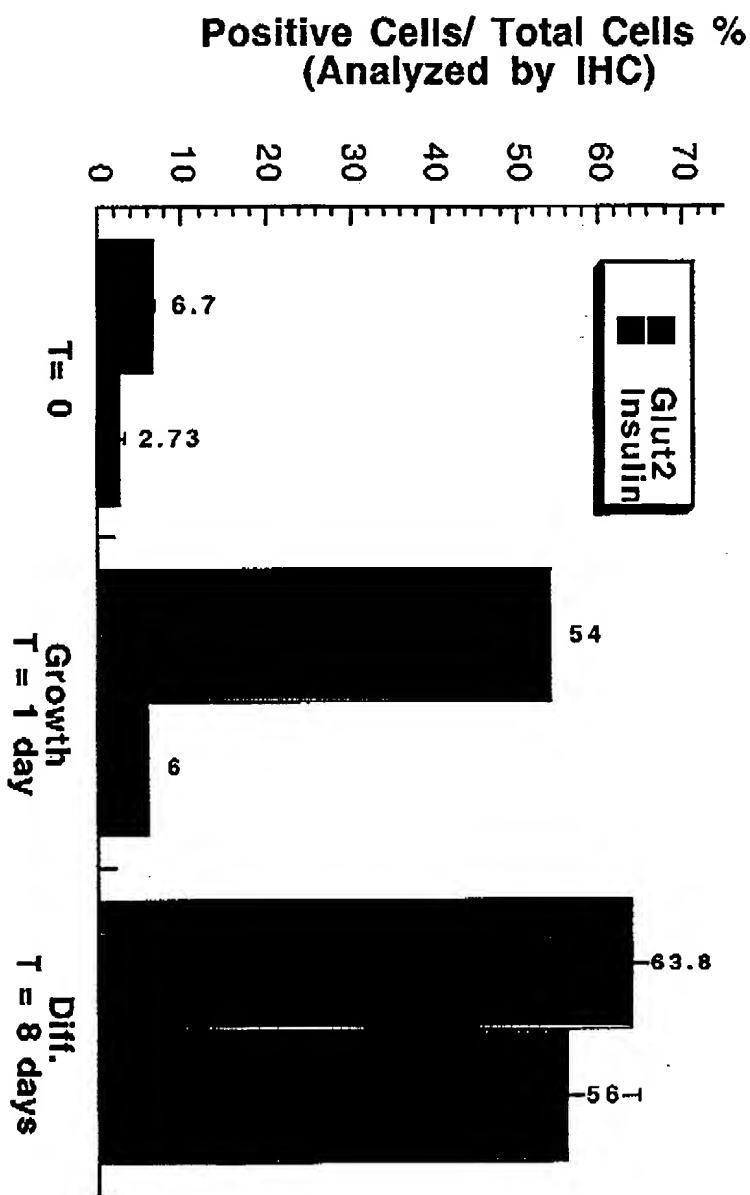
Curis Confidential

**CURIS, INC.**

August 7, 2000

Figure 4A-B

**Glut-2 and IN Positive Cells in  
Primary Sphere During Growth & Differentiation**



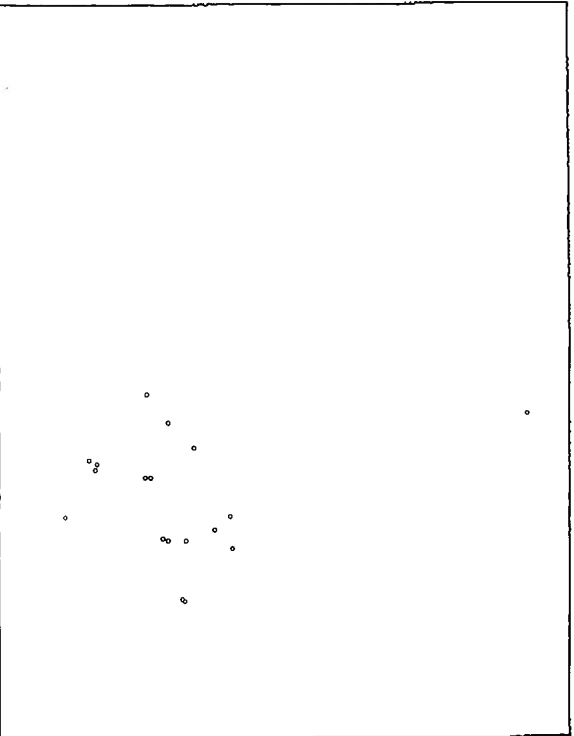
Curis Confidential

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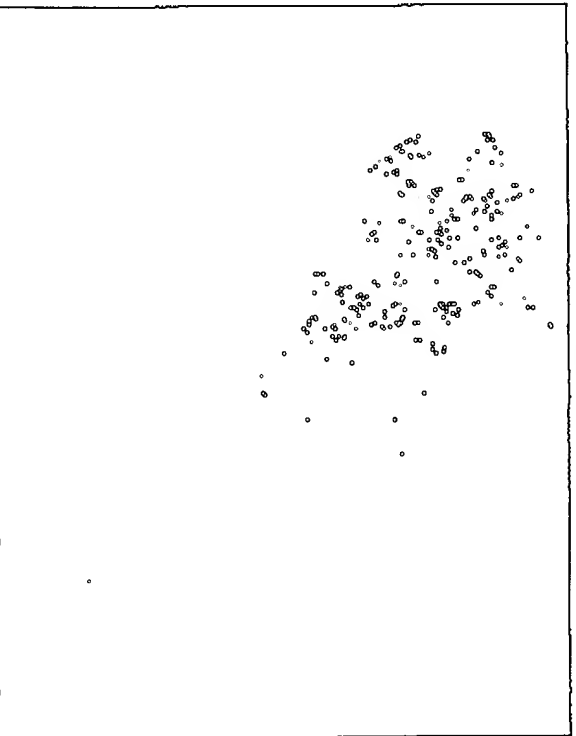
Fig 47

# 5.19 Spheres on Cytospin Slide (sphere in culture for 24 days)

Nestin



DAPI



Nestin/DAPI

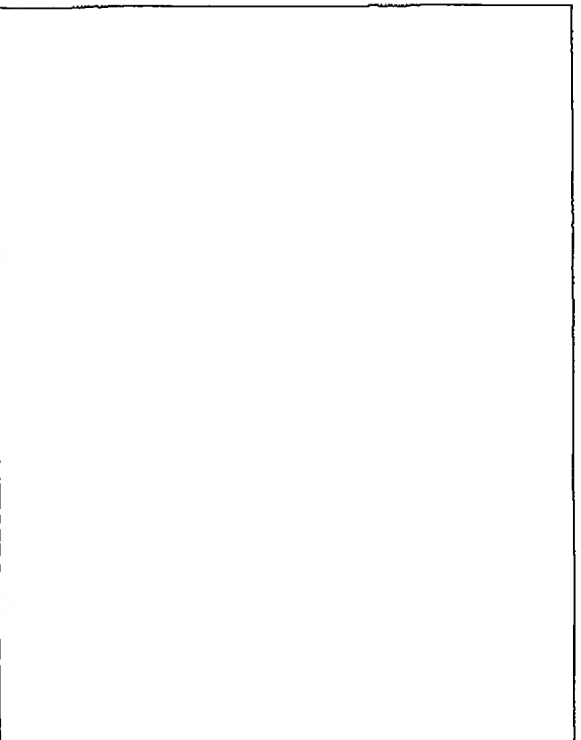




Fig 48

**Table 1: Marker Staining in 5.19-Spheres on Cytospin Slides  
(Undifferentiated Cells)**

**(Sphere in Culture for 24 Days)**

<u>Markers</u>	<u>Positive Cells/total Cells</u>	<u>Ave:</u>
Pdx+	20/627 16/520 10/366 3/493	2.2 +/- 0.4 %
IN+	10/627 8/520 6/366 3/493	0.11 +/- 0.03%
pdx/IN		60%
glut2+	5/562 6/495 2/503	0.82 +/- 0.03%
Nestin+	314/562 222/495 250/503	52 +/- 3.2%
glut2/nestin		0

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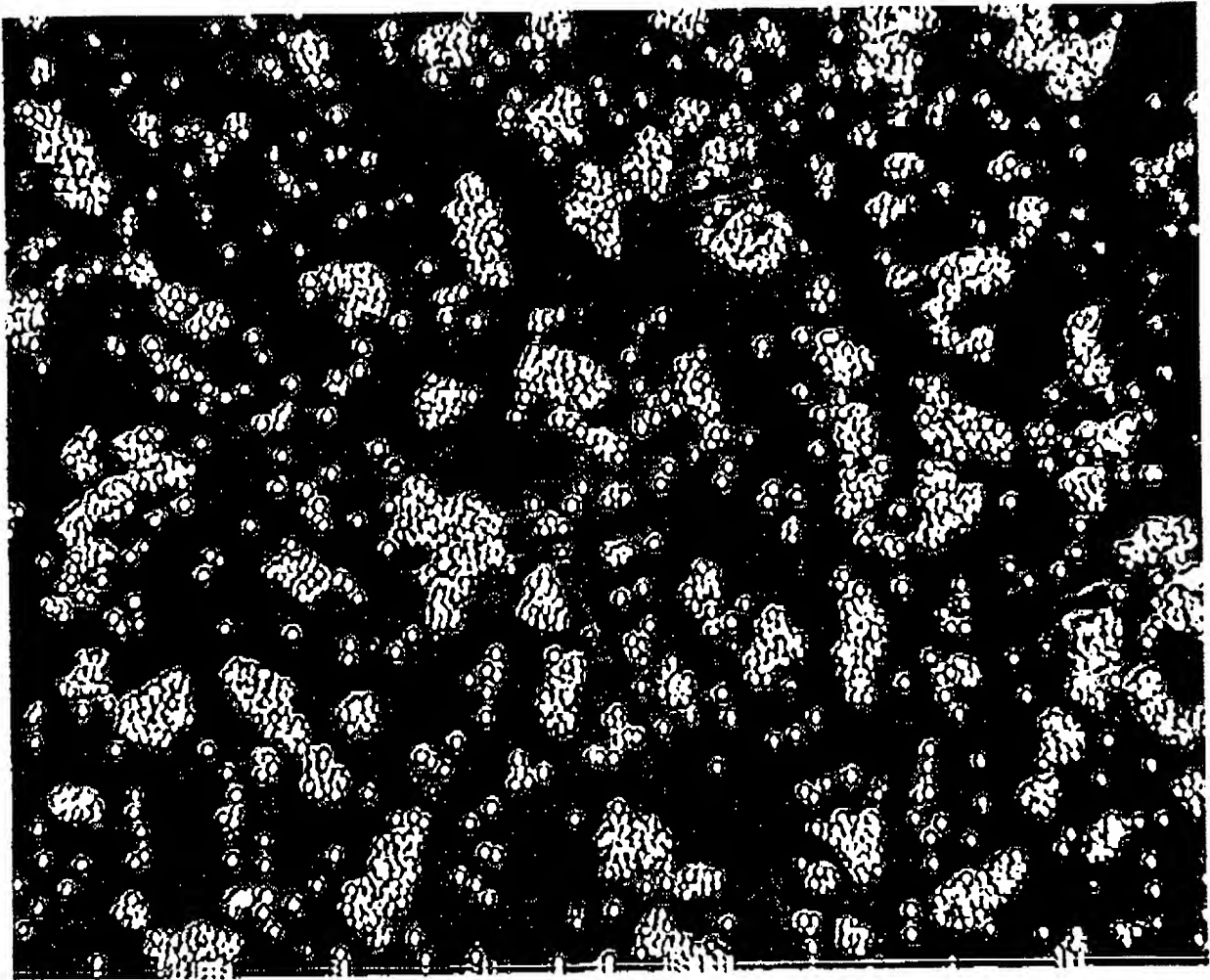


FIG. 49

09635370.080900

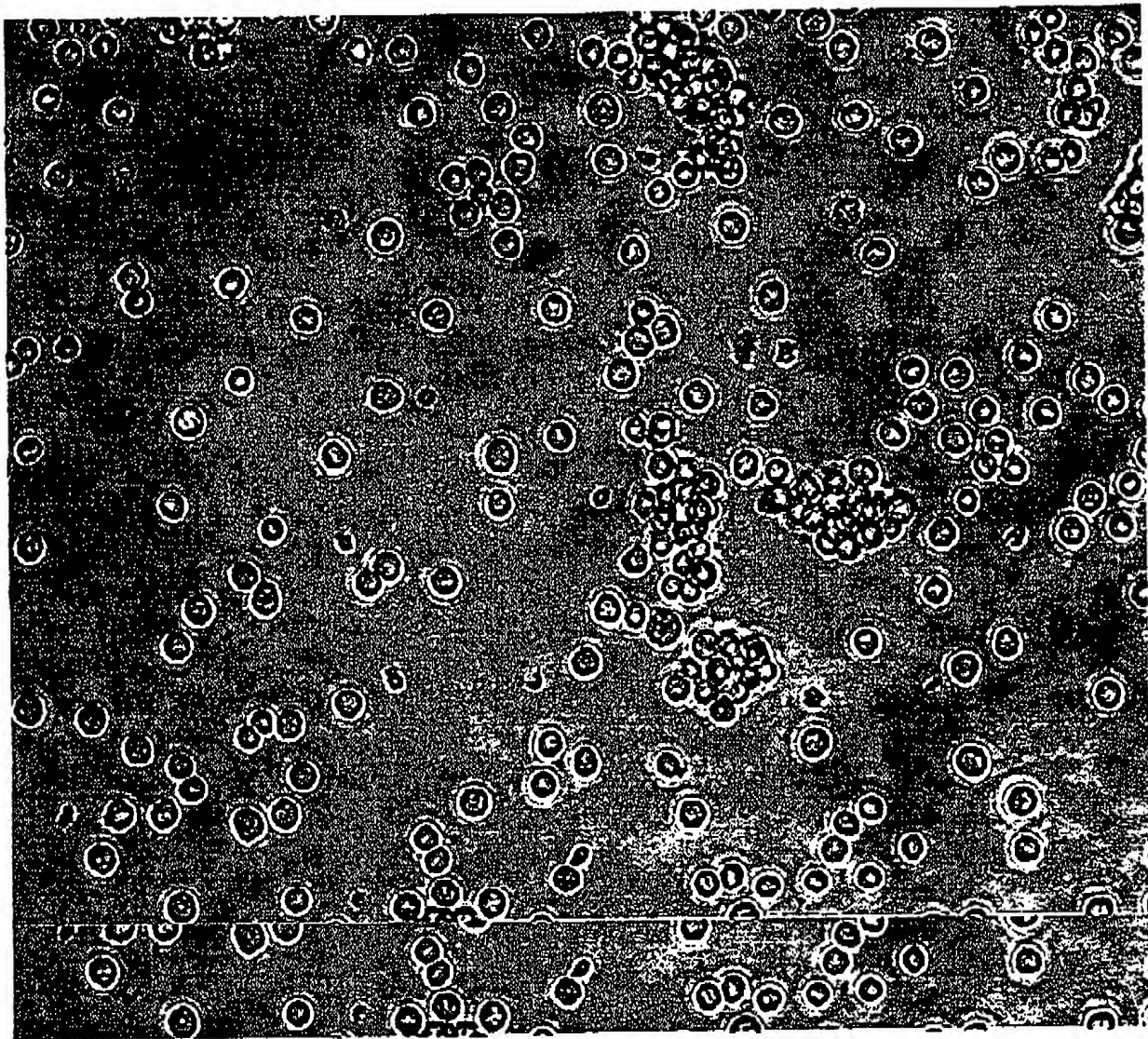


FIG. 50

09635370.080900

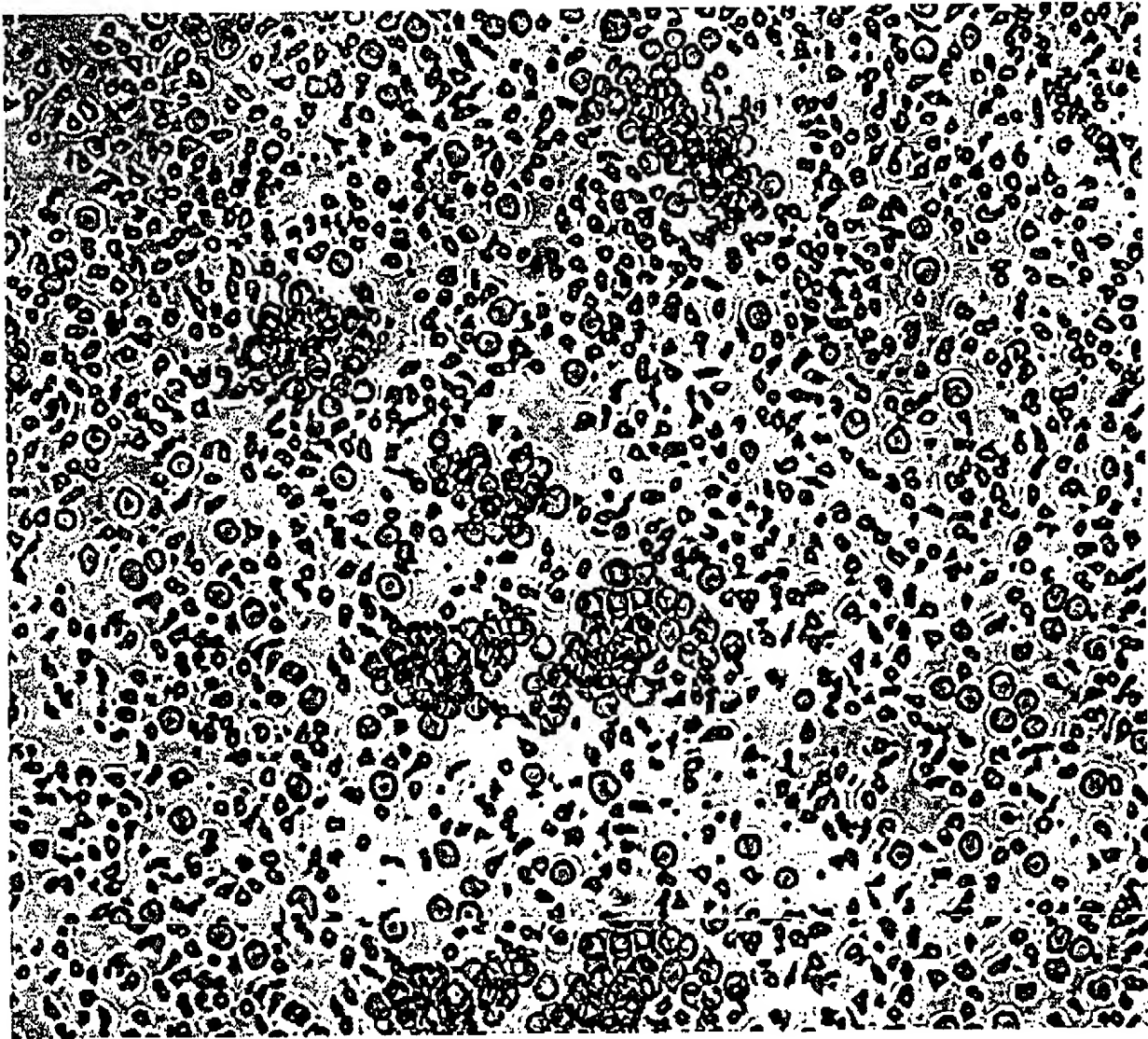
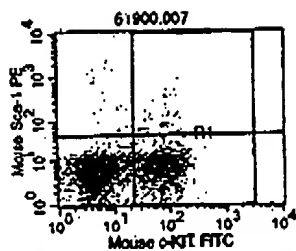


FIG. 5

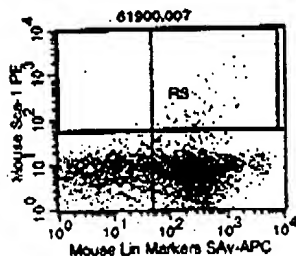
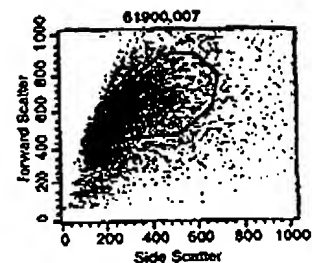
09635370.080900



File: 61900.007  
Acquisition Date: 19-Jul-00  
Gated Events: 21598  
X Parameter: FL1-H Mouse c-KIT FITC (Log)

Quadrant	Events	% Gated	% Total
UL	115	0.53	0.23
UR	274	1.27	0.55
LL	16629	78.53	33.06
LR	4680	21.67	9.36

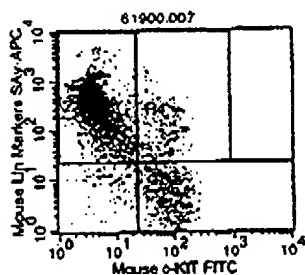
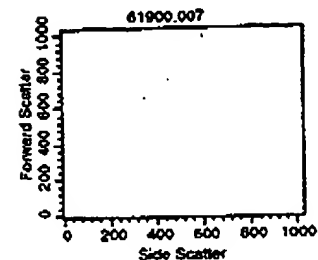
Log Data Units: Linear Values  
Gate: G2  
Total Events: 50000  
Y Parameter: FL2-H Mouse Sca-1 PE (Log)



File: 61900.007  
Acquisition Date: 19-Jul-00  
Gated Events: 21598  
X Parameter: FL4-H Mouse Lin Markers SAV-APC (Log)

Quadrant	Events	% Gated	% Total
UL	21	0.10	0.04
UR	342	1.58	0.68
LL	4975	23.03	9.95
LR	16260	75.28	32.52

Log Data Units: Linear Values  
Gate: G2  
Total Events: 50000  
Y Parameter: FL2-H Mouse Sca-1 PE



File: 61900.007  
Acquisition Date: 19-Jul-00  
Gated Events: 21598  
X Parameter: FL1-H Mouse c-KIT FITC (Log)

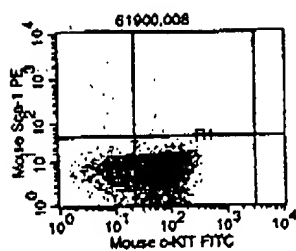
Quadrant	Events	% Gated	% Total
UL	15966	73.92	31.93
UR	1752	8.11	3.50
LL	703	3.25	1.41
LR	3178	14.71	6.35

Log Data Units: Linear Values  
Gate: G2  
Total Events: 50000  
Y Parameter: FL4-H Mouse Lin Markers SAV-APC

File: 61900.007  
Log Data Units: Linear Values  
Acquisition Date: 19-Jul-00  
Gate: G5  
Gated Events: 28  
Total Events: 50000  
X Parameter: SSC-H Side Scatter (Linear)  
Y Parameter: FSC-H Forward Scatter (Lin)

Gate	Events	% Gated	% Total
G5	28	100.00	0.06
G1	28	100.00	0.06
G2	4	14.29	0.01
G3	28	100.00	0.06
G4	0	0.00	0.00

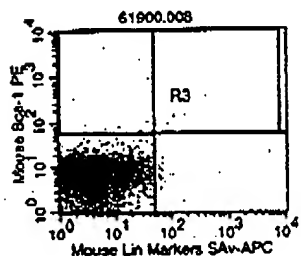
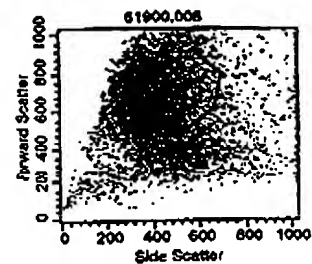
FIG. 52



File: 61900.008  
Acquisition Date: 19-Jul-00  
Gated Events: 28016  
X Parameter: FL1-H Mouse c-KIT FITC (Log)

Log Data Units: Linear Values  
Gate: G2  
Total Events: 50000  
Y Parameter: FL2-H Mouse Sca-1 PE (Log)

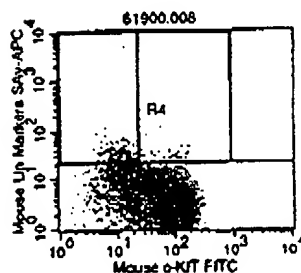
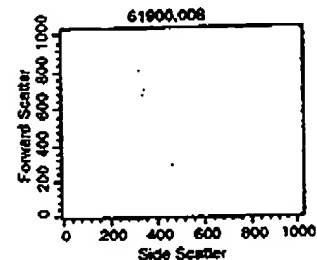
Quad	Events	% Gated	% Total
UL	33	0.12	0.07
UR	114	0.41	0.23
LL	6026	21.51	12.05
LR	21843	77.87	43.69



File: 61900.008  
Acquisition Date: 19-Jul-00  
Gated Events: 28016  
X Parameter: FL4-H Mouse Lin Markers SAw-APC (Log)

Log Data Units: Linear Values  
Gate: G2  
Total Events: 50000  
Y Parameter: FL2-H Mouse Sca-1 f

Quad	Events	% Gated	% Total
UL	101	0.36	0.20
UR	31	0.11	0.06
LL	27662	98.74	55.32
LR	222	0.79	0.44



File: 61900.008  
Acquisition Date: 19-Jul-00  
Gated Events: 28016  
X Parameter: FL1-H Mouse c-KIT FITC (Log)

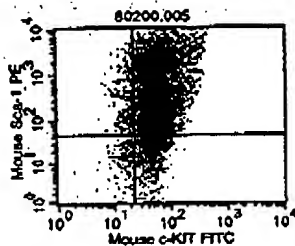
Log Data Units: Linear Values  
Gate: G2  
Total Events: 50000  
Y Parameter: FL4-H Mouse Lin Markers SAw-Af

Quad	Events	% Gated	% Total
UL	1062	3.79	2.12
UR	472	1.68	0.94
LL	5088	18.16	10.18
LR	21394	76.36	42.79

File: 61900.008  
Log Data Units: Linear Values  
Acquisition Date: 19-Jul-00  
Gate: G5  
Gated Events: 193  
Total Events: 50000  
X Parameter: SSC-H Side Scatter (Linear)  
Y Parameter: FSC-H Forward Scatter (Lin)

Gate	Events	% Gated	% Total
G5	193	100.00	0.39
G1	193	100.00	0.39
G2	52	26.94	0.10
G3	193	100.00	0.39
G4	0	0.00	0.00

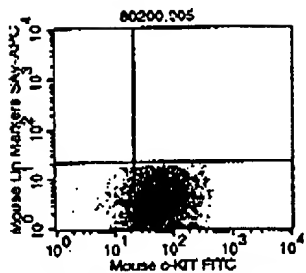
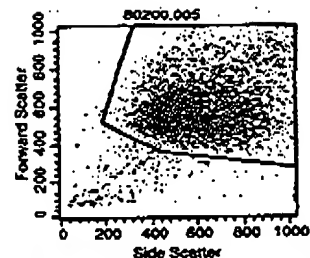
FIG. 53



File: 80200.005  
Acquisition Date: 02-Aug-00  
Gated Events: 44701  
X Parameter: FL1-H Mouse c-KIT FITC (Log)

Log Data Units: Linear Values  
Gate: G5  
Total Events: 50000  
Y Parameter: FL2-H Mouse Sca-1

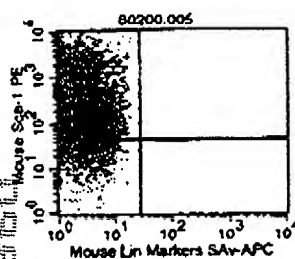
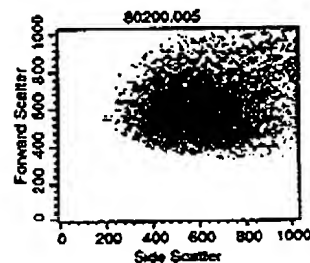
Quad	Events	% Gated	% Total
UL	1466	3.28	2.93
UR	35339	79.06	70.66
LL	1030	2.30	2.06
LR	6886	15.36	13.73



File: 80200.005  
Acquisition Date: 02-Aug-00  
Gated Events: 44701  
X Parameter: FL1-H Mouse c-KIT FITC (Log)

Log Data Units: Linear Values  
Gate: G5  
Total Events: 50000  
Y Parameter: FL4-H Mouse Lin Ma

Quad	Events	% Gated	% Total
UL	0	0.00	0.00
UR	0	0.00	0.00
LL	2079	4.65	4.16
LR	42622	95.35	85.24



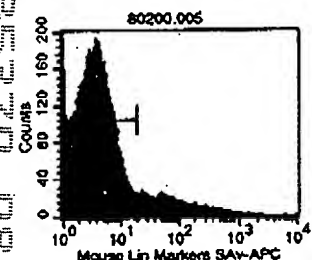
File: 80200.005  
Acquisition Date: 02-Aug-00  
Gated Events: 44701  
X Parameter: FL4-H Mouse Lin Markers SA-APC (Log)

Log Data Units: Linear Value  
Gate: G5  
Total Events: 50000  
Y Parameter: FL2-H Mouse

Quad	Events	% Gated	% Total
UL	36805	82.34	73.61
UR	0	0.00	0.00
LL	7896	17.66	15.79
LR	0	0.00	0.00

File: 80200.005  
Log Data Units: Linear Values  
Acquisition Date: 02-Aug-00  
Gate: G5  
Gated Events: 44701  
Total Events: 50000  
X Parameter: SSC-H Side Scatter (Linear)  
Y Parameter: FSC-H Forward Scatter (Lin)

Gate	Events	% Gated	% Total
G5	44701	100.00	89.40
G1	44701	100.00	89.40
G2	44701	100.00	89.40

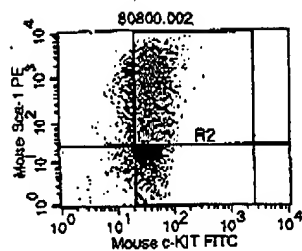


File: 80200.005  
Acquisition Date: 02-Aug-00  
Gated Events: 48658  
X Parameter: FL4-H Mouse Lin Markers SA-APC (Log)

Log Data Units: Linear V.  
Gate: G1  
Total Events: 50000

Marker	Left	Right	Events	% Gated	% Total	CV	Median	Peak Ch
All	1	9910	48658	100.00	97.32	580.78	2.67	1

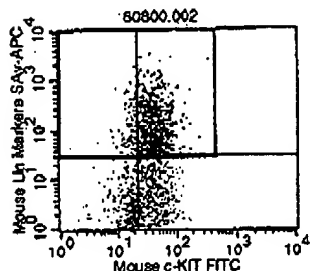
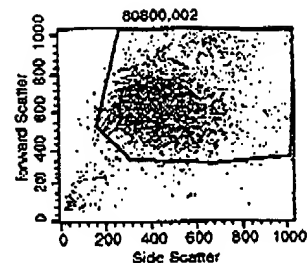
FIG. 54



File: 80800.002  
Acquisition Date: 08-Aug-00  
Gated Events: 48966  
X Parameter: FL1-H Mouse c-KIT FITC (Log)

Quad	Events	% Gated	% Total
UL	2729	5.57	5.48
UR	37046	75.65	74.09
LL	1074	2.19	2.15
LR	8117	16.58	16.23

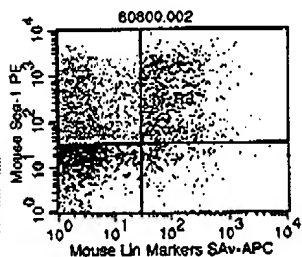
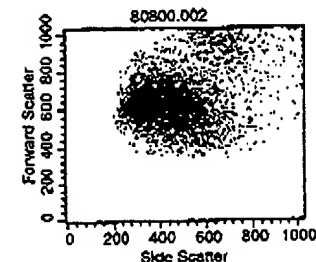
Log Data Units: Linear Values  
Gate: G1  
Total Events: 50000  
Y Parameter: FL2-H Mouse Sca-1 PE (Log)



File: 80800.002  
Acquisition Date: 08-Aug-00  
Gated Events: 48966  
X Parameter: FL1-H Mouse c-KIT FITC (Log)

Quad	Events	% Gated	% Total
UL	524	1.07	1.05
UR	4287	8.76	8.57
LL	3533	7.22	7.07
LR	40622	82.96	81.24

Log Data Units: Linear Values  
Gate: G1  
Total Events: 50000  
Y Parameter: FL4-H Mouse Lin Markers SAV-APC



File: 80800.002  
Acquisition Date: 08-Aug-00  
Gated Events: 48966  
X Parameter: FL4-H Mouse Lin Markers SAV-APC (Log)

Quad	Events	% Gated	% Total
UL	35790	73.09	71.58
UR	3985	8.14	7.87
LL	8191	16.73	16.38
LR	1000	2.04	2.00

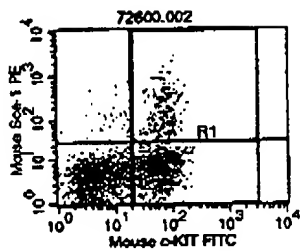
Log Data Units: Linear Values  
Gate: G1  
Total Events: 50000  
Y Parameter: FL2-H Mouse Sca-1 PE (Log)

File: 80800.002  
Log Data Units: Linear Values  
Acquisition Date: 08-Aug-00  
Gate: G5  
Gated Events: 33531  
Total Events: 50000  
X Parameter: SSC-H Side Scatter (Linear)  
Y Parameter: FSC-H Forward Scatter (Lin)

Gate	Events	% Gated	% Total
G5	33531	100.00	67.06
G1	33531	100.00	67.06
G2	33531	100.00	67.06
G3	33531	100.00	67.06
G4	0	0.00	0.00

FIG. 55

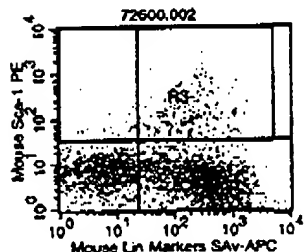
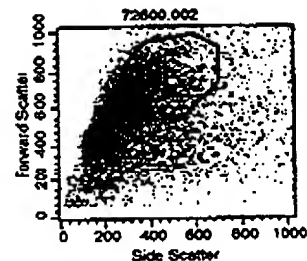




File: 72600.002  
 Acquisition Date: 26-Jul-00  
 Gated Events: 16726  
 X Parameter: FL1-H Mouse c-KIT FITC (Log)

Quad	Events	% Gated	% Total
UL	159	0.95	0.22
UR	1194	7.14	2.39
LL	9406	56.24	18.81
LR	5967	35.67	11.93

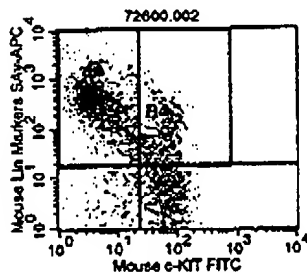
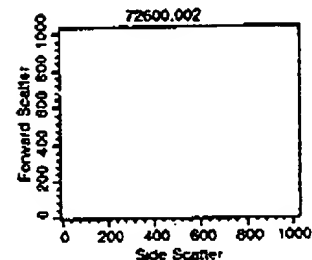
Log Data Units: Linear Values  
 Gate: G2  
 Total Events: 50000  
 Y Parameter: FL2-H Mouse Scg-1 PE (Log)



File: 72600.002  
 Acquisition Date: 26-Jul-00  
 Gated Events: 16726  
 X Parameter: FL4-H Mouse Lin Markers SAw-APC (Log)

Quad	Events	% Gated	% Total
UL	118	0.71	0.24
UR	1197	7.16	2.39
LL	4899	29.28	9.80
LR	10512	62.85	21.02

Log Data Units: Linear Values  
 Gate: G2  
 Total Events: 50000  
 Y Parameter: FL2-H Mouse Scg-1 PE



File: 72600.002  
 Acquisition Date: 26-Jul-00  
 Gated Events: 16726  
 X Parameter: FL1-H Mouse c-KIT FITC (Log)

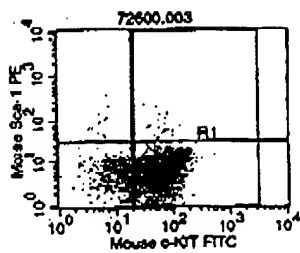
Quad	Events	% Gated	% Total
UL	9077	54.27	18.15
UR	2948	17.61	5.89
LL	794	4.75	1.59
LR	3909	23.37	7.82

Log Data Units: Linear Values  
 Gate: G2  
 Total Events: 50000  
 Y Parameter: FL4-H Mouse Lin Markers SAw-APC

File: 72600.002  
 Log Data Units: Linear Values  
 Acquisition Date: 26-Jul-00  
 Gate: G5  
 Gated Events: 136  
 Total Events: 50000  
 X Parameter: SSC-H Side Scatter (Linear)  
 Y Parameter: FSC-H Forward Scatter (Lin)

Gate	Events	% Gated	% Total
G5	136	100.00	0.27
G1	136	100.00	0.27
G2	63	46.32	0.13
G3	136	100.00	0.27
G4	0	0.00	0.00

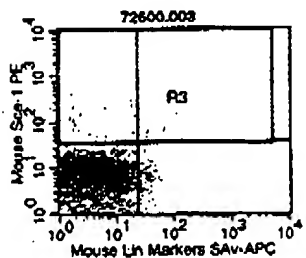
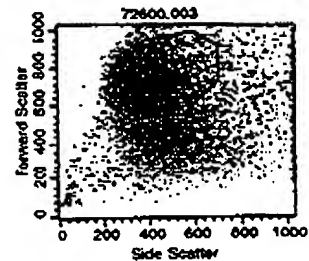
Fig. 56



File: 72600.003  
Acquisition Date: 26-Jul-00  
Gated Events: 23121  
X Parameter: FL1-H Mouse c-KIT FITC (Log)

Quad	Events	% Gated	% Total
UL	79	0.82	0.15
UR	471	2.04	0.94
LL	2781	12.03	5.56
LR	19796	85.62	39.56

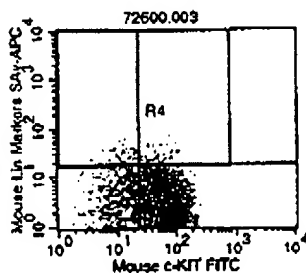
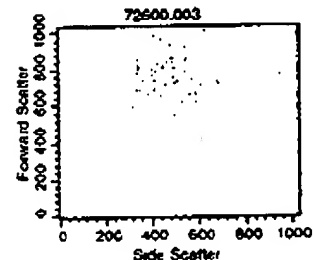
Log Data Units: Linear Values  
Gate: G2  
Total Events: 50000  
Y Parameter: FL2-H Mouse Sca-1 PE (Log)



File: 72600.003  
Acquisition Date: 26-Jul-00  
Gated Events: 23121  
X Parameter: FL4-H Mouse Lin Markers SA-APC (Log)

Quad	Events	% Gated	% Total
UL	454	1.96	0.91
UR	40	0.17	0.08
LL	22145	95.78	44.29
LR	482	2.06	0.96

Log Data Units: Linear Values  
Gate: G2  
Total Events: 50000  
Y Parameter: FL2-H Mouse Sca-1 PE (Log)



File: 72600.003  
Acquisition Date: 26-Jul-00  
Gated Events: 23121  
X Parameter: FL1-H Mouse c-KIT FITC (Log)

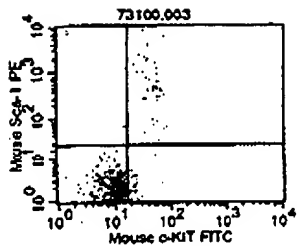
Quad	Events	% Gated	% Total
UL	387	1.67	0.77
UR	529	2.29	1.06
LL	3053	13.20	6.11
LR	19152	82.83	38.30

Log Data Units: Linear Values  
Gate: G2  
Total Events: 50000  
Y Parameter: FL4-H Mouse Lin Markers SA-APC (Log)

File: 72600.003  
Log Data Units: Linear Values  
Acquisition Date: 26-Jul-00  
Gate: G5  
Gated Events: 996  
Total Events: 50000  
X Parameter: SSC-H Side Scatter (Linear)  
Y Parameter: FSC-H Forward Scatter (Lin)

Gate	Events	% Gated	% Total
G5	996	100.00	1.99
G1	996	100.00	1.99
G2	407	40.86	0.81
G3	996	100.00	1.99
G4	0	0.00	0.00

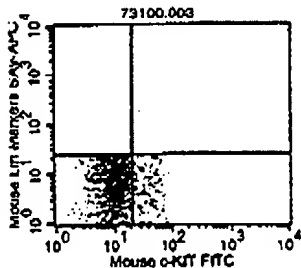
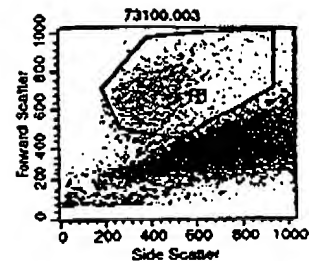
FIG. 87



File: 73100.003  
Acquisition Date: 31-Jul-00  
Gated Events: 3674  
X Parameter: FL1-H Mouse c-KIT FITC (Log)

Quad	Events	% Gated	% Total
UL	18	0.44	0.03
UR	396	10.78	0.79
LL	2912	79.26	5.82
LR	250	9.53	0.70

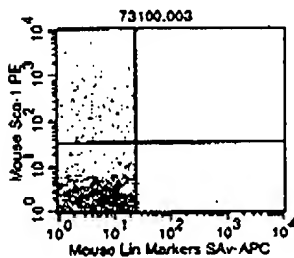
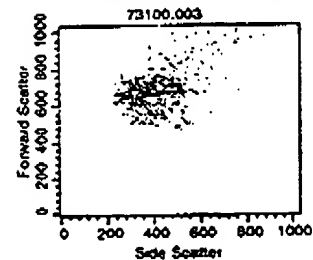
Log Data Units: Linear Values  
Gate: G5  
Total Events: 50000  
Y Parameter: FL2-H Mouse Sca-1 PE (Log)



File: 73100.003  
Acquisition Date: 31-Jul-00  
Gated Events: 3674  
X Parameter: FL1-H Mouse c-KIT FITC (Log)

Quad	Events	% Gated	% Total
UL	51	1.39	0.10
UR	6	0.16	0.01
LL	3048	82.96	6.10
LR	569	15.49	1.14

Log Data Units: Linear Values  
Gate: G5  
Total Events: 50000  
Y Parameter: FL4-H Mouse Lin Markers SA-Av-APC



File: 73100.003  
Acquisition Date: 31-Jul-00  
Gated Events: 3674  
X Parameter: FL4-H Mouse Lin Markers SA-Av-APC (Log)

Quad	Events	% Gated	% Total
UL	397	10.81	0.79
UR	4	0.11	0.01
LL	3175	86.42	6.35
LR	98	2.67	0.20

Log Data Units: Linear Values  
Gate: G5  
Total Events: 50000  
Y Parameter: FL2-H Mouse Sca-1

File: 73100.003  
Log Data Units: Linear Values  
Acquisition Date: 31-Jul-00  
Gate: G5  
Gated Events: 3674  
Total Events: 50000  
X Parameter: SSC-H Side Scatter (Linear)  
Y Parameter: FSC-H Forward Scatter (Lin)

Gate	Events	% Gated	% Total
G5	3674	100.00	7.35
G1	3674	100.00	7.35
G2	3674	100.00	7.35

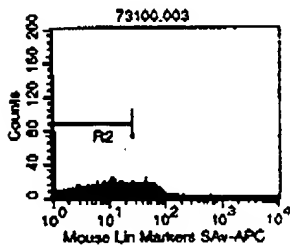
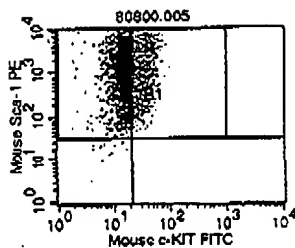


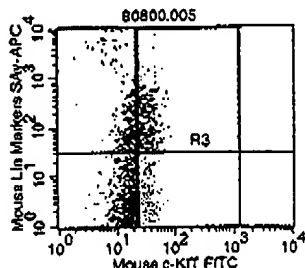
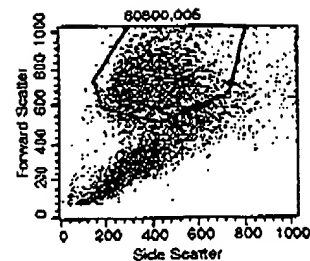
FIG. 107



File: 80800.005  
Acquisition Date: 08-Aug-00  
Gated Events: 30300  
X Parameter: FL1-H Mouse c-KIT FITC (Log)

Quad	Events	% Gated	% Total
UL	11679	38.54	23.36
UR	18505	61.07	37.01
LL	99	0.33	0.20
LR	17	0.06	0.03

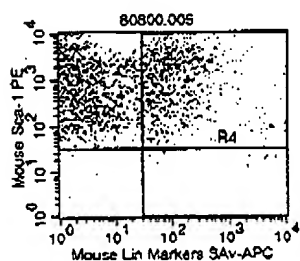
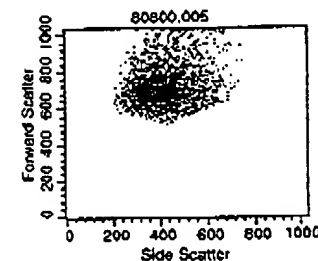
Log Data Units: Linear Values  
Gate: G2  
Total Events: 50000  
Y Parameter: FL2-H Mouse Sca-1 PE (Log)



File: 80800.005  
Acquisition Date: 08-Aug-00  
Gated Events: 30300  
X Parameter: FL1-H Mouse c-KIT FITC (Log)

Quad	Events	% Gated	% Total
UL	1765	5.83	3.53
UR	2486	8.20	4.97
LL	10453	34.50	20.91
LR	15596	51.47	31.19

Log Data Units: Linear Values  
Gate: G2  
Total Events: 60000  
Y Parameter: FL4-H Mouse Lin Markers SAV-APC



File: 80800.005  
Acquisition Date: 08-Aug-00  
Gated Events: 30300  
X Parameter: FL4-H Mouse Lin Markers SAV-APC (Log)

Quad	Events	% Gated	% Total
UL	25874	85.39	51.75
UR	4310	14.22	8.62
LL	72	0.24	0.14
LR	44	0.15	0.09

Log Data Units: Linear Values  
Gate: G2  
Total Events: 50000  
Y Parameter: FL2-H Mouse Sca-1 PE (Log)

File: 80800.005  
Log Data Units: Linear Values  
Acquisition Date: 08-Aug-00  
Gate: G5  
Gated Events: 14140  
Total Events: 50000  
X Parameter: SSC-H Side Scatter (Linear)  
Y Parameter: FSC-H Forward Scatter (Linear)

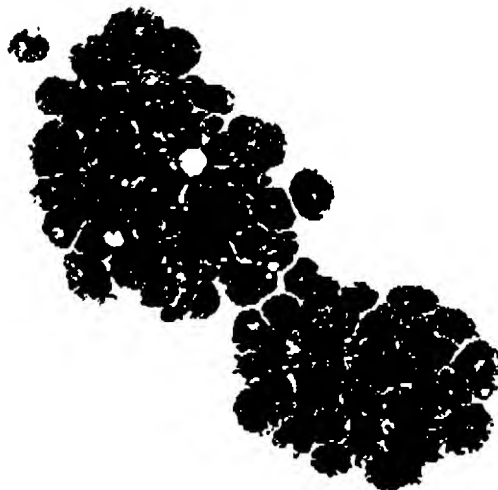
Gate	Events	% Gated	% Total
G5	14140	100.00	28.28
G1	14140	100.00	28.28
G2	14140	100.00	28.28
G3	14140	100.00	28.28
G4	0	0.00	0.00

FIG. 59

**SCF**



**SCF, LIF, Flt-3 ligand**



**May-Grunwald Giemsa Stain**

Fig. 14 60